

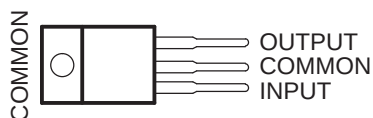
POSITIVE-VOLTAGE REGULATORS

Check for Samples: [uA78M00 SERIES](#)

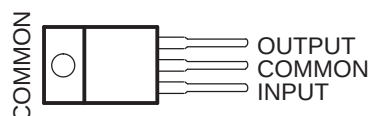
FEATURES

- 3-Terminal Regulators
- Output Current up to 500 mA
- No External Components
- Internal Thermal-Overload Protection
- High Power-Dissipation Capability
- Internal Short-Circuit Current Limiting
- Output Transistor Safe-Area Compensation

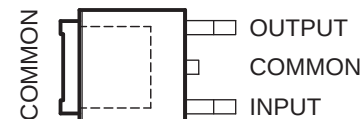
**KC (TO-220) PACKAGE
(TOP VIEW)**



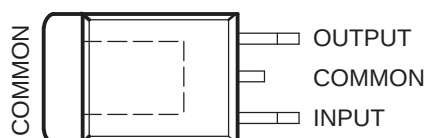
**KCS (TO-220) PACKAGE
(TOP VIEW)**



**KVU (TO-252) PACKAGE
(TOP VIEW)**

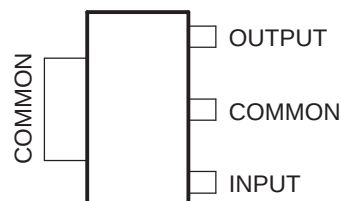


**KTP (PowerFLEX /TO-252*) PACKAGE
(TOP VIEW)**



* Complies with JEDEC TO-252, variation AC

**DCY (SOT-223) PACKAGE
(TOP VIEW)**



DESCRIPTION/ORDERING INFORMATION

This series of fixed-voltage integrated-circuit voltage regulators is designed for a wide range of applications. These applications include on-card regulation for elimination of noise and distribution problems associated with single-point regulation. Each of these regulators can deliver up to 500 mA of output current. The internal current-limiting and thermal-shutdown features of these regulators essentially make them immune to overload. In addition to use as fixed-voltage regulators, these devices can be used with external components to obtain adjustable output voltages and currents and also as the power-pass element in precision regulators.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

PowerPAD is a trademark of Texas Instruments.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of the Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

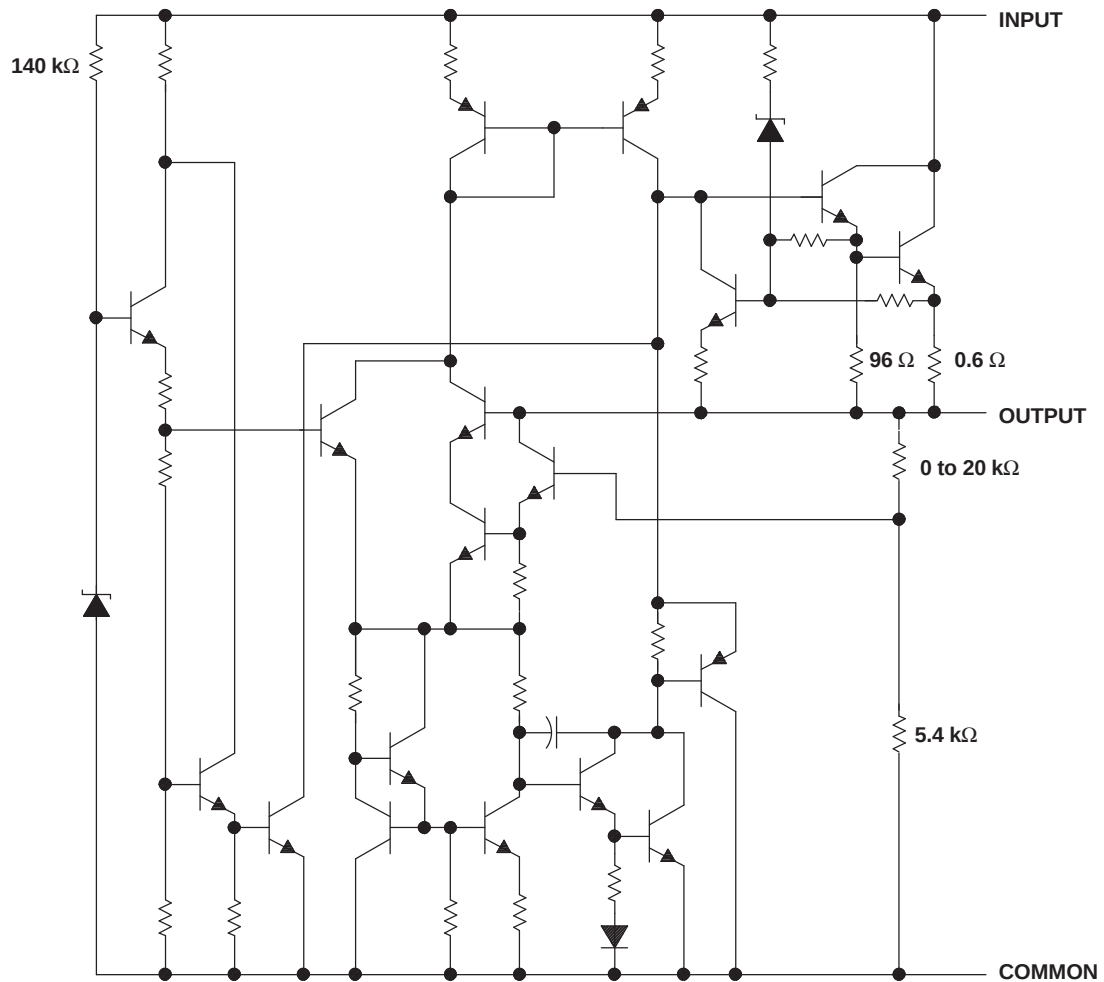
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ORDERING INFORMATION⁽¹⁾

T_A	V_O(NOM) (V)	PACKAGE⁽²⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING
0°C to 125°C	3.3	SOT-223 – DCY	Tube of 80	UA78M33CDCY	C3
			Reel of 2500	UA78M33CDCYR	
		TO-220, short shoulder – KCS	Tube of 20	UA78M33CKCS	UA78M33C
		TO-252 – KVV	Reel of 2500	UA78M33CKVURG3	78M33C
	5	SOT-223 – DCY	Tube of 80	UA78M05CDCY	C5
			Reel of 2500	UA78M05CDCYR	
		TO-220, short shoulder – KCS	Tube of 20	UA78M05CKCS	UA78M05C
		TO-252 – KVV	Reel of 2500	UA78M05CKVURG3	78M05C
	6	TO-252 – KVV	Reel of 2500	UA78M06CKVURG3	78M06C
	8	SOT-223 – DCY	Tube of 80	UA78M08CDCY	C8
			Reel of 2500	UA78M08CDCYR	
		TO-220, short shoulder – KCS	Tube of 20	UA78M08CKCS	UA78M08C
		TO-252 – KVV	Reel of 2500	UA78M08CKVURG3	78M08C
	9	TO-252 – KVV	Reel of 2500	UA78M09CKVURG3	78M09C
	10	TO-252 – KVV	Reel of 2500	UA78M10CKVURG3	78M10C
	12	TO-220, short shoulder – KCS	Tube of 20	UA78M12CKCS	UA78M12C
		TO-252 – KVV	Reel of 2500	UA78M12CKVURG3	78M12C
–40°C to 125°C	5	SOT-223 – DCY	Tube of 80	UA78M05IDCY	J5
			Reel of 2500	UA78M05IDCYR	
		TO-220, short shoulder – KCS	Tube of 20	UA78M05IKCS	UA78M05I
		TO-252 – KVV	Reel of 2500	UA78M05IKVURG3	78M05I

- (1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at www.ti.com.
- (2) Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.

SCHEMATIC



Resistor values shown are nominal.

Absolute Maximum Ratings⁽¹⁾

over virtual junction temperature range (unless otherwise noted)

		MIN	MAX	UNIT
V_I	Input voltage		35	V
T_J	Operating virtual junction temperature		150	°C
T_{stg}	Storage temperature range	–65	150	°C

- (1) Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

Package Thermal Data⁽¹⁾

PACKAGE	BOARD	θ_{JP} ⁽²⁾	θ_{JC}	θ_{JA}
PowerFLEX/TO-252 – KTP	High K, JESD 51-5	1.4°C/W	19°C/W	28°C/W
SOT-223 – DCY	High K, JESD 51-7		30.6°C/W	53°C/W
TO-220 – KC	High K, JESD 51-5	3°C/W	17°C/W	19°C/W
TO-220 – KCS	High K, JESD 51-5	3°C/W	17°C/W	19°C/W
TO-252 – KVV	High K, JESD 51-5			30.3°C/W

- (1) Maximum power dissipation is a function of $T_J(\text{max})$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $P_D = (T_J(\text{max}) - T_A)/\theta_{JA}$. Operating at the absolute maximum T_J of 150°C can affect reliability.
- (2) For packages with exposed thermal pads, such as QFN, PowerPAD™, or PowerFLEX, θ_{JP} is defined as the thermal resistance between the die junction and the bottom of the exposed pad.

Recommended Operating Conditions

		MIN	MAX	UNIT
V_I	Input voltage	uA78M33	5.3	25
		uA78M05	7	25
		uA78M06	8	25
		uA78M08	10.5	25
		uA78M09	11.5	26
		uA78M10	12.5	28
		uA78M12	14.5	30
		uA78M15	17.5	30
I_O	Output current		500	mA
T_J	Operating virtual junction temperature	uA78MxxC	0	125
		uA78MxxI	–40	125

Electrical Characteristics

at specified virtual junction temperature, $V_I = 8\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾	uA78M33C			UNIT
		MIN	TYP	MAX	
Output voltage ⁽²⁾	$I_O = 5\text{ mA to }350\text{ mA}$, $V_I = 8\text{ V to }20\text{ V}$	3.2	3.3	3.4	V
	$T_J = 0^\circ\text{C to }125^\circ\text{C}$	3.1	3.3	3.5	
Input voltage regulation	$I_O = 200\text{ mA}$		9	100	mV
	$V_I = 5.3\text{ V to }25\text{ V}$ $V_I = 8\text{ V to }25\text{ V}$		3	50	
Ripple rejection	$V_I = 8\text{ V to }18\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	62		dB
		$I_O = 300\text{ mA}$	62	80	
Output voltage regulation	$V_I = 8\text{ V}$, $I_O = 5\text{ mA to }500\text{ mA}$		20	100	mV
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$		–1		mV/°C
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$		40	200	μV
Dropout voltage			2		V
Bias current			4.5	6	mA
Bias current change	$I_O = 200\text{ mA}$, $V_I = 8\text{ V to }25\text{ V}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.8	mA
	$I_O = 5\text{ mA to }350\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.5	
Short-circuit output current	$V_I = 35\text{ V}$		300		mA
Peak output current			700		mA

- (1) All characteristics are measured with a 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.
- (2) This specification applies only for dc power dissipation permitted by absolute maximum ratings

Electrical Characteristics

at specified virtual junction temperature, $V_I = 10\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾	uA78M05C			UNIT
		MIN	TYP	MAX	
Output voltage	$I_O = 5\text{ mA to }350\text{ mA}$, $V_I = 7\text{ V to }20\text{ V}$	4.8	5	5.2	V
	$T_J = 0^\circ\text{C to }125^\circ\text{C}$	4.75		5.25	
Input voltage regulation	$I_O = 200\text{ mA}$		3	100	mV
	$V_I = 7\text{ V to }25\text{ V}$ $V_I = 8\text{ V to }25\text{ V}$		1	50	
Ripple rejection	$V_I = 8\text{ V to }18\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	62		dB
		$I_O = 300\text{ mA}$	62	80	
Output voltage regulation	$I_O = 5\text{ mA to }500\text{ mA}$		20	100	mV
	$I_O = 5\text{ mA to }200\text{ mA}$		10	50	
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$		–1		mV/°C
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$		40	200	μV
Dropout voltage			2		V
Bias current			4.5	6	mA
Bias current change	$I_O = 200\text{ mA}$, $V_I = 8\text{ V to }25\text{ V}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.8	mA
	$I_O = 5\text{ mA to }350\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.5	
Short-circuit output current	$V_I = 35\text{ V}$		300		mA
Peak output current			0.7		A

- (1) All characteristics are measured with a 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.

Electrical Characteristics

at specified virtual junction temperature, $V_I = 10\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾		uA78M05I			UNIT
			MIN	TYP	MAX	
Output voltage	$I_O = 5\text{ mA to }350\text{ mA}$, $V_I = 7\text{ V to }20\text{ V}$		4.8	5	5.2	V
		$T_J = -40^\circ\text{C to }125^\circ\text{C}$	4.75		5.25	
Input voltage regulation	$I_O = 200\text{ mA}$	$V_I = 7\text{ V to }25\text{ V}$		3	100	mV
		$V_I = 8\text{ V to }25\text{ V}$		1	50	
Ripple rejection	$V_I = 8\text{ V to }18\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = -40^\circ\text{C to }125^\circ\text{C}$	62			dB
		$I_O = 300\text{ mA}$	62	80		
Output voltage regulation	$I_O = 5\text{ mA to }500\text{ mA}$			20	100	mV
	$I_O = 5\text{ mA to }200\text{ mA}$			10	50	
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$,	$T_J = -40^\circ\text{C to }125^\circ\text{C}$		-1		mV/ $^\circ\text{C}$
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$			40	200	μV
Dropout voltage				2		V
Bias current				4.5	6	mA
Bias current change	$I_O = 200\text{ mA}$, $V_I = 8\text{ V to }25\text{ V}$, $T_J = -40^\circ\text{C to }125^\circ\text{C}$				0.8	mA
	$I_O = 5\text{ mA to }350\text{ mA}$, $T_J = -40^\circ\text{C to }125^\circ\text{C}$				0.5	
Short-circuit output current	$V_I = 35\text{ V}$			300		mA
Peak output current				0.7		A

(1) All characteristics are measured with a 0.33- μF capacitor across the input and a 0.1- μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.

Electrical Characteristics

at specified virtual junction temperature, $V_I = 11\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾			uA78M06C			UNIT
				MIN	TYP	MAX	
Output voltage	$I_O = 5\text{ mA to }350\text{ mA}$, $V_I = 8\text{ V to }21\text{ V}$			5.75	6	6.25	V
		$T_J = 0^\circ\text{C to }125^\circ\text{C}$		5.7		6.3	
Input voltage regulation	$I_O = 200\text{ mA}$	$V_I = 8\text{ V to }25\text{ V}$			5	100	mV
		$V_I = 9\text{ V to }25\text{ V}$			1.5	50	
Ripple rejection	$V_I = 8\text{ V to }18\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$		59			dB
		$I_O = 300\text{ mA}$		59	80		
Output voltage regulation	$I_O = 5\text{ mA to }500\text{ mA}$				20	120	mV
	$I_O = 5\text{ mA to }200\text{ mA}$				10	60	
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$,	$T_J = 0^\circ\text{C to }125^\circ\text{C}$			-1		mV/ $^\circ\text{C}$
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$				45		μV
Dropout voltage					2		V
Bias current					4.5	6	mA
Bias current change	$V_I = 9\text{ V to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$					0.8	mA
	$I_O = 5\text{ mA to }350\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$					0.5	
Short-circuit output current	$V_I = 35\text{ V}$				270		mA
Peak output current					0.7		A

(1) All characteristics are measured with a 0.33- μF capacitor across the input and a 0.1- μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.

Electrical Characteristics

at specified virtual junction temperature, $V_I = 14\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾		uA78M08C			UNIT
			MIN	TYP	MAX	
Output voltage	$V_I = 10.5\text{ V to }23\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$		7.7	8	8.3	V
		$T_J = 0^\circ\text{C to }125^\circ\text{C}$	7.6		8.4	
Input voltage regulation	$I_O = 200\text{ mA}$	$V_I = 10.5\text{ V to }25\text{ V}$		6	100	mV
		$V_I = 11\text{ V to }25\text{ V}$		2	50	
Ripple rejection	$V_I = 11\text{ V to }21.5\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	56			dB
		$I_O = 300\text{ mA}$	56	80		
Output voltage regulation	$I_O = 5\text{ mA to }500\text{ mA}$			25	160	mV
	$I_O = 5\text{ mA to }200\text{ mA}$			10	80	
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			–1		mV/°C
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$			52		μV
Dropout voltage				2		V
Bias current				4.6	6	mA
Bias current change	$V_I = 10.5\text{ V to }25\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	$I_O = 200\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.8	mA
					0.5	
Short-circuit output current	$V_I = 35\text{ V}$			250		mA
Peak output current				0.7		A

(1) All characteristics are measured with a 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.

Electrical Characteristics

at specified virtual junction temperature, $V_I = 16\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾		uA78M09C			UNIT
			MIN	TYP	MAX	
Output voltage	$V_I = 11.5\text{ V to }24\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$		8.6	9	9.4	V
		$T_J = 0^\circ\text{C to }125^\circ\text{C}$	8.5		9.5	
Input voltage regulation	$I_O = 200\text{ mA}$	$V_I = 11.5\text{ V to }26\text{ V}$		6	100	mV
		$V_I = 12\text{ V to }26\text{ V}$		2	50	
Ripple rejection	$V_I = 13\text{ V to }23\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	56			dB
		$I_O = 300\text{ mA}$	56	80		
Output voltage regulation	$I_O = 5\text{ mA to }500\text{ mA}$			25	180	mV
	$I_O = 5\text{ mA to }200\text{ mA}$			10	90	
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			–1		mV/°C
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$			58		μV
Dropout voltage				2		V
Bias current				4.6	6	mA
Bias current change	$V_I = 11.5\text{ V to }26\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	$I_O = 200\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.8	mA
					0.5	
Short-circuit output current	$V_I = 35\text{ V}$			250		mA
Peak output current				0.7		A

(1) All characteristics are measured with a 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.

Electrical Characteristics

at specified virtual junction temperature, $V_I = 17\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾		uA78M10C			UNIT
			MIN	TYP	MAX	
Output voltage	$V_I = 12.5\text{ V to }25\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$		9.6	10	10.4	V
		$T_J = 0^\circ\text{C to }125^\circ\text{C}$	9.5		10.5	
Input voltage regulation	$I_O = 200\text{ mA}$	$V_I = 12.5\text{ V to }28\text{ V}$		7	100	mV
		$V_I = 14\text{ V to }28\text{ V}$		2	50	
Ripple rejection	$V_I = 15\text{ V to }25\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	59			dB
		$I_O = 300\text{ mA}$	55	80		
Output voltage regulation	$I_O = 5\text{ mA to }500\text{ mA}$			25	200	mV
	$I_O = 5\text{ mA to }200\text{ mA}$			10	100	
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			–1		mV/°C
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$			64		μV
Dropout voltage				2		V
Bias current				4.7	6	mA
Bias current change	$V_I = 12.5\text{ V to }28\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	$I_O = 200\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.8	mA
					0.5	
Short-circuit output current	$V_I = 35\text{ V}$			245		mA
Peak output current				0.7		A

(1) All characteristics are measured with a 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.

Electrical Characteristics

at specified virtual junction temperature, $V_I = 19\text{ V}$, $I_O = 350\text{ mA}$, $T_J = 25^\circ\text{C}$ (unless otherwise noted)

PARAMETER	TEST CONDITIONS ⁽¹⁾		uA78M12C			UNIT
			MIN	TYP	MAX	
Output voltage	$V_I = 14.5\text{ V to }27\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$		11.5	12	12.5	V
		$T_J = 0^\circ\text{C to }125^\circ\text{C}$	11.4		12.6	
Input voltage regulation	$I_O = 200\text{ mA}$	$V_I = 14.5\text{ V to }30\text{ V}$		8	100	mV
		$V_I = 16\text{ V to }30\text{ V}$		2	50	
Ripple rejection	$V_I = 15\text{ V to }25\text{ V}$, $f = 120\text{ Hz}$	$I_O = 100\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	55			dB
		$I_O = 300\text{ mA}$	55	80		
Output voltage regulation	$I_O = 5\text{ mA to }500\text{ mA}$			25	240	mV
	$I_O = 5\text{ mA to }200\text{ mA}$			10	120	
Temperature coefficient of output voltage	$I_O = 5\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			–1		mV/°C
Output noise voltage	$f = 10\text{ Hz to }100\text{ kHz}$			75		μV
Dropout voltage				2		V
Bias current				4.8	6	mA
Bias current change	$V_I = 14.5\text{ V to }30\text{ V}$, $I_O = 5\text{ mA to }350\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$	$I_O = 200\text{ mA}$, $T_J = 0^\circ\text{C to }125^\circ\text{C}$			0.8	mA
					0.5	
Short-circuit output current	$V_I = 35\text{ V}$			240		mA
Peak output current				0.7		A

(1) All characteristics are measured with a 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output. Pulse-testing techniques maintain T_J as close to T_A as possible. Thermal effects must be taken into account separately.

REVISION HISTORY

Changes from Revision Q (April 2010) to Revision R	Page
• Removed obsolete part information from document.	1

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp (3)	Op Temp (°C)	Top-Side Markings (4)	Samples
UA78M05CDCY	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C5	Samples
UA78M05CDCYG3	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C5	Samples
UA78M05CDCYR	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C5	Samples
UA78M05CDCYRG3	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C5	Samples
UA78M05CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125	UA78M05C	
UA78M05CKCS	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M05C	Samples
UA78M05CKCSE3	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M05C	Samples
UA78M05CKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M05C	
UA78M05CKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M05C	
UA78M05CKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	0 to 125	78M05C	Samples
UA78M05IDCY	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 125	J5	Samples
UA78M05IDCYG3	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 125	J5	Samples
UA78M05IDCYR	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 125	J5	Samples
UA78M05IDCYRG3	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 125	J5	Samples
UA78M05IKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	-40 to 125	UA78M05I	
UA78M05IKCE3	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	-40 to 125	UA78M05I	
UA78M05IKCS	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	-40 to 125	UA78M05I	Samples
UA78M05IKCSE3	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	-40 to 125	UA78M05I	Samples
UA78M05IKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	-40 to 125	UA78M05I	
UA78M05IKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	-40 to 125	UA78M05I	

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp (3)	Op Temp (°C)	Top-Side Markings (4)	Samples
UA78M05IKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	-40 to 125	78M05I	Samples
UA78M06CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125		
UA78M06CKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M06C	
UA78M06CKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M06C	
UA78M06CKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	0 to 125	78M06C	Samples
UA78M08CDCY	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C8	Samples
UA78M08CDCYG3	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C8	Samples
UA78M08CDCYR	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C8	Samples
UA78M08CDCYRG3	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C8	Samples
UA78M08CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125	UA78M08C	
UA78M08CKCE3	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125	UA78M08C	
UA78M08CKCS	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M08C	Samples
UA78M08CKCSE3	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M08C	Samples
UA78M08CKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M08C	
UA78M08CKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M08C	
UA78M08CKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	0 to 125	78M08C	Samples
UA78M09CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125		
UA78M09CKTP	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125		
UA78M09CKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M09C	
UA78M09CKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M09C	
UA78M09CKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	0 to 125	78M09C	Samples
UA78M10CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125		
UA78M10CKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M10C	
UA78M10CKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M10C	

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp (3)	Op Temp (°C)	Top-Side Markings (4)	Samples
UA78M10CKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	0 to 125	78M10C	Samples
UA78M12CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125	UA78M12C	
UA78M12CKCS	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M12C	Samples
UA78M12CKCSE3	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M12C	Samples
UA78M12CKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M12C	
UA78M12CKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M12C	
UA78M12CKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	0 to 125	78M12C	Samples
UA78M33CDCY	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C3	Samples
UA78M33CDCYG3	ACTIVE	SOT-223	DCY	4	80	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C3	Samples
UA78M33CDCYR	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C3	Samples
UA78M33CDCYRG3	ACTIVE	SOT-223	DCY	4	2500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 125	C3	Samples
UA78M33CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125	UA78M33C	
UA78M33CKCE3	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI	0 to 125	UA78M33C	
UA78M33CKCS	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M33C	Samples
UA78M33CKCSE3	ACTIVE	TO-220	KCS	3	50	Pb-Free (RoHS)	CU SN	N / A for Pkg Type	0 to 125	UA78M33C	Samples
UA78M33CKTPR	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M33C	
UA78M33CKTPRG3	OBSOLETE	PFM	KTP	2		TBD	Call TI	Call TI	0 to 125	UA78M33C	
UA78M33CKVURG3	ACTIVE	PFM	KVU	3	2500	Green (RoHS & no Sb/Br)	CU SN	Level-3-260C-168 HR	0 to 125	78M33C	Samples

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check <http://www.ti.com/productcontent> for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

⁽⁴⁾ Only one of markings shown within the brackets will appear on the physical device.

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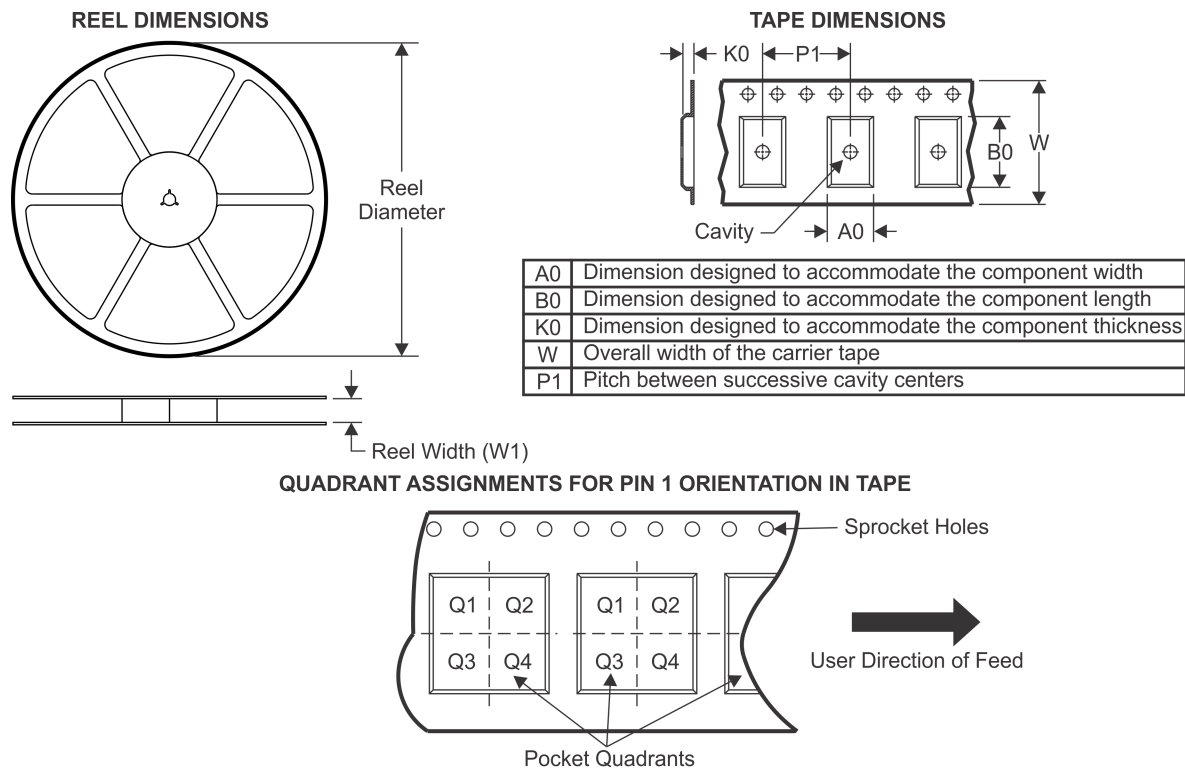
In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF UA78M05, UA78M10, UA78M33 :

- Automotive: [UA78M05-Q1](#), [UA78M10-Q1](#), [UA78M33-Q1](#)

NOTE: Qualified Version Definitions:

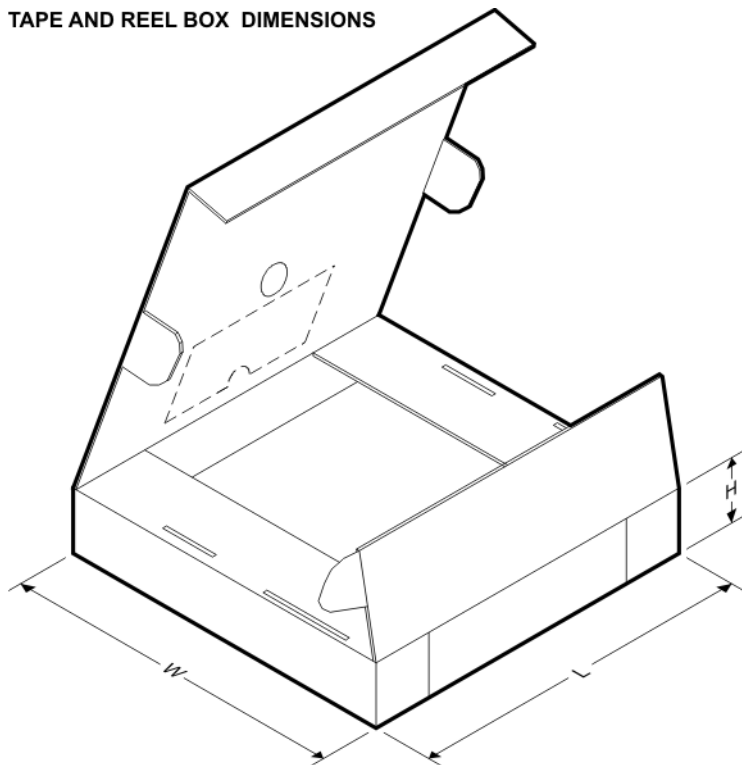
- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects

TAPE AND REEL INFORMATION


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
UA78M05CDCYR	SOT-223	DCY	4	2500	330.0	12.4	7.05	7.4	1.9	8.0	12.0	Q3
UA78M05CKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2
UA78M05IDCYR	SOT-223	DCY	4	2500	330.0	12.4	7.05	7.4	1.9	8.0	12.0	Q3
UA78M05IKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2
UA78M06CKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2
UA78M08CDCYR	SOT-223	DCY	4	2500	330.0	12.4	7.05	7.4	1.9	8.0	12.0	Q3
UA78M08CKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2
UA78M09CKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2
UA78M10CKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2
UA78M12CKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2
UA78M33CDCYR	SOT-223	DCY	4	2500	330.0	12.4	7.05	7.4	1.9	8.0	12.0	Q3
UA78M33CKVURG3	PFM	KVU	3	2500	330.0	16.4	6.9	10.5	2.7	8.0	16.0	Q2

TAPE AND REEL BOX DIMENSIONS

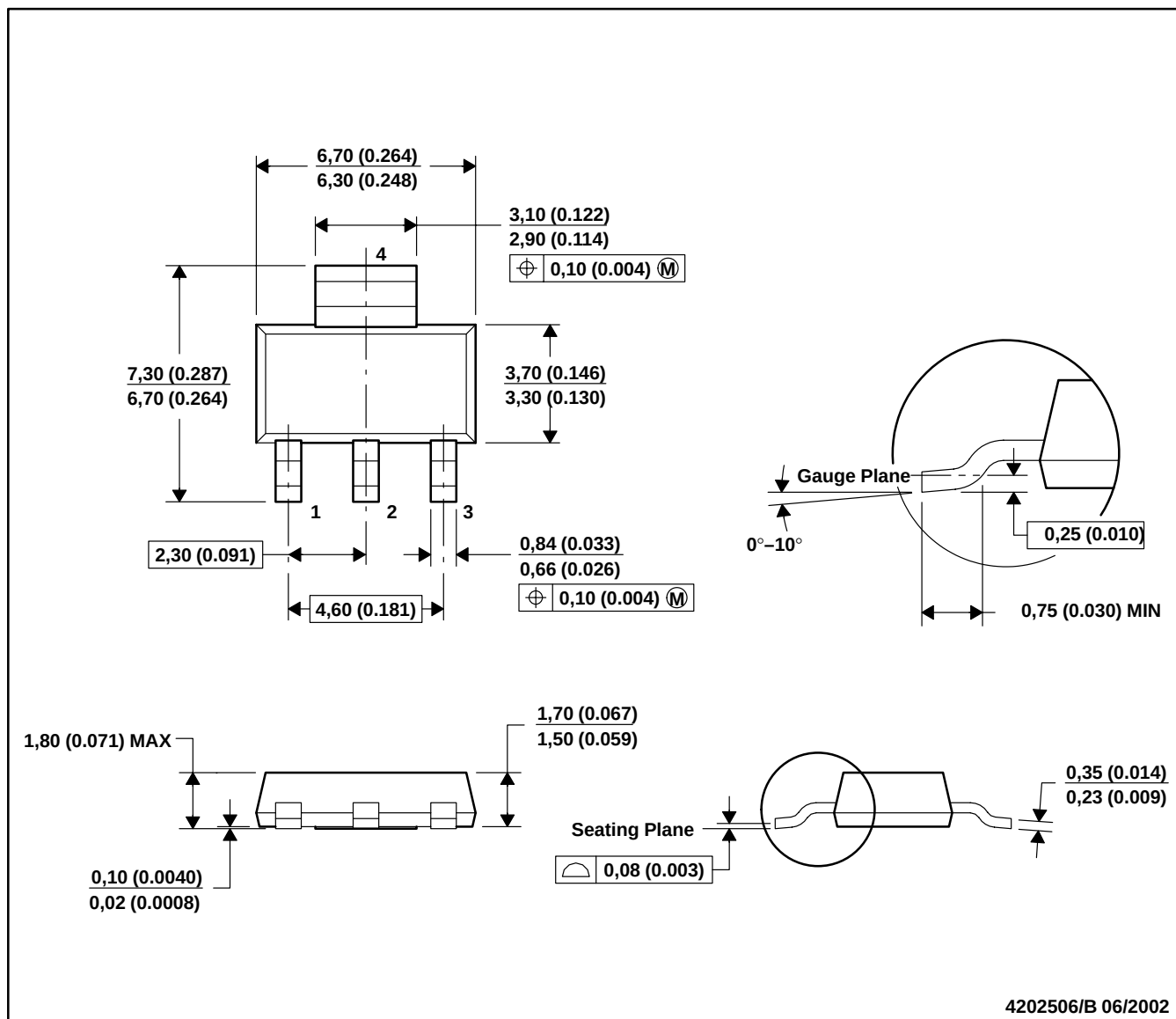


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
UA78M05CDCYR	SOT-223	DCY	4	2500	340.0	340.0	38.0
UA78M05CKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0
UA78M05IDCYR	SOT-223	DCY	4	2500	340.0	340.0	38.0
UA78M05IKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0
UA78M06CKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0
UA78M08CDCYR	SOT-223	DCY	4	2500	340.0	340.0	38.0
UA78M08CKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0
UA78M09CKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0
UA78M10CKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0
UA78M12CKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0
UA78M33CDCYR	SOT-223	DCY	4	2500	340.0	340.0	38.0
UA78M33CKVURG3	PFM	KVU	3	2500	340.0	340.0	38.0

DCY (R-PDSO-G4)

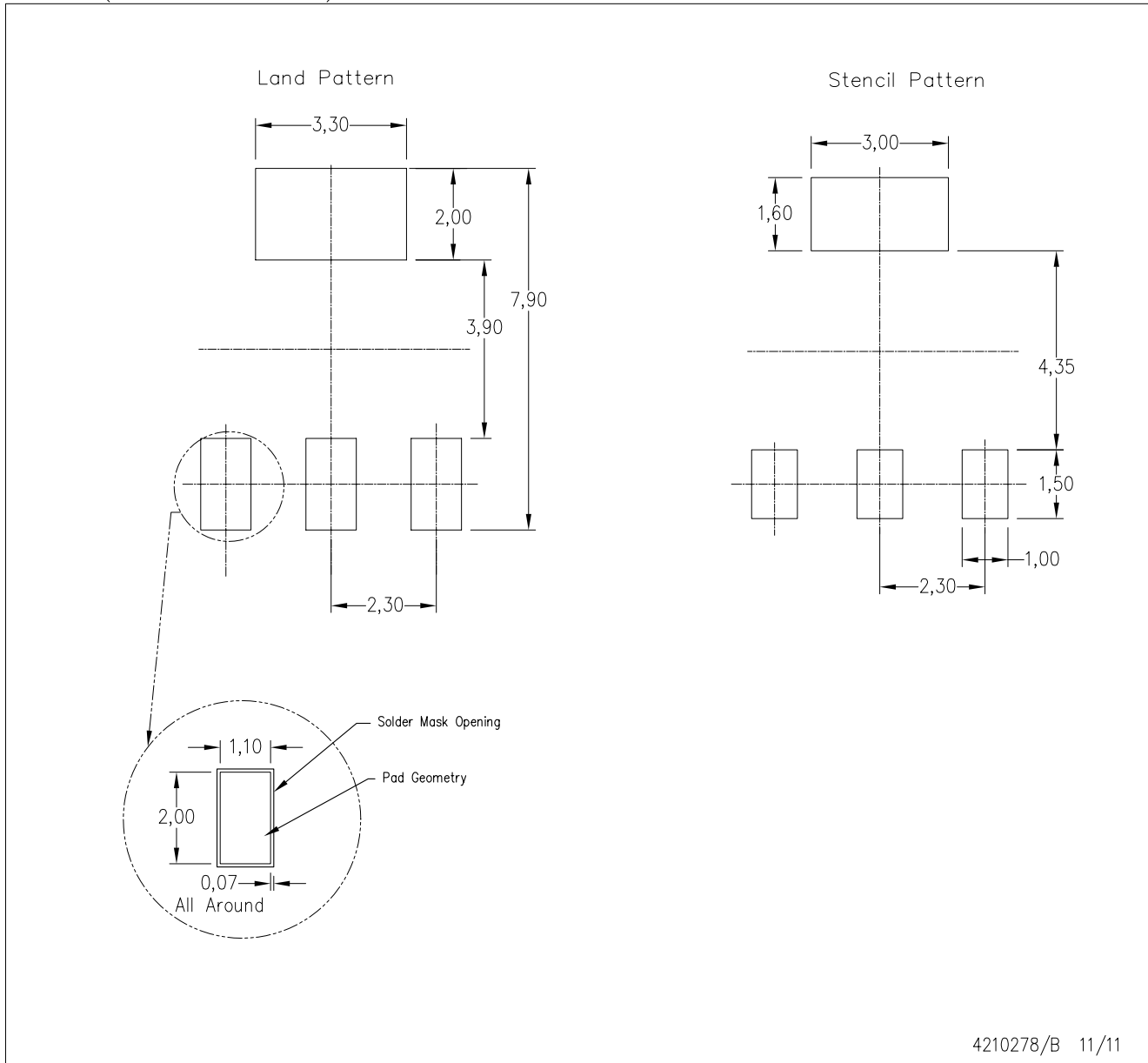
PLASTIC SMALL-OUTLINE



- NOTES:
- All linear dimensions are in millimeters (inches).
 - This drawing is subject to change without notice.
 - Body dimensions do not include mold flash or protrusion.
 - Falls within JEDEC TO-261 Variation AA.

DCY (R-PDSO-G4)

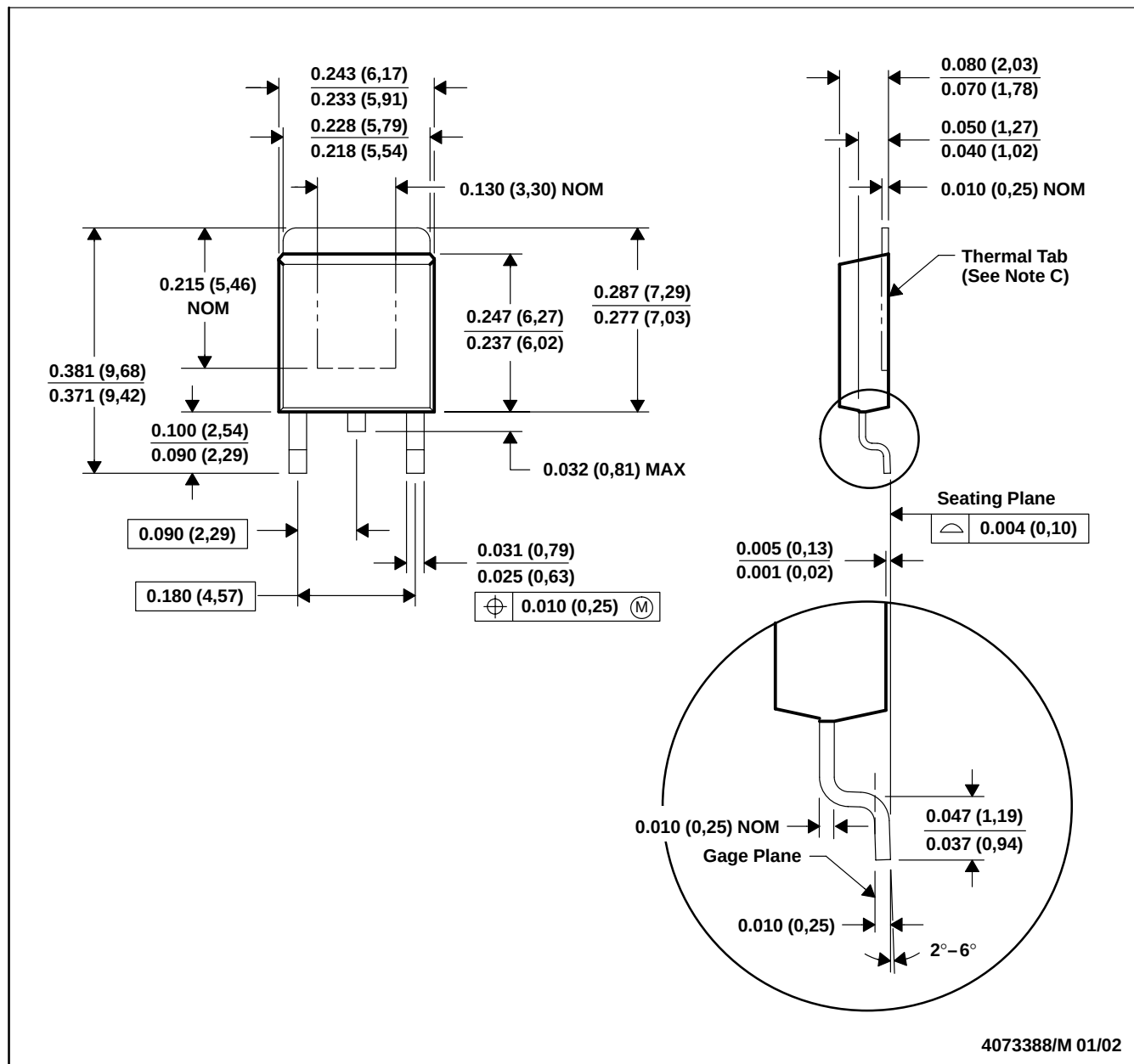
PLASTIC SMALL OUTLINE



- NOTES:
- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
 - D. Publication IPC-7351 is recommended for alternate designs.
 - E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations.

KTP (R-PSFM-G2)

PowerFLEX™ PLASTIC FLANGE-MOUNT PACKAGE

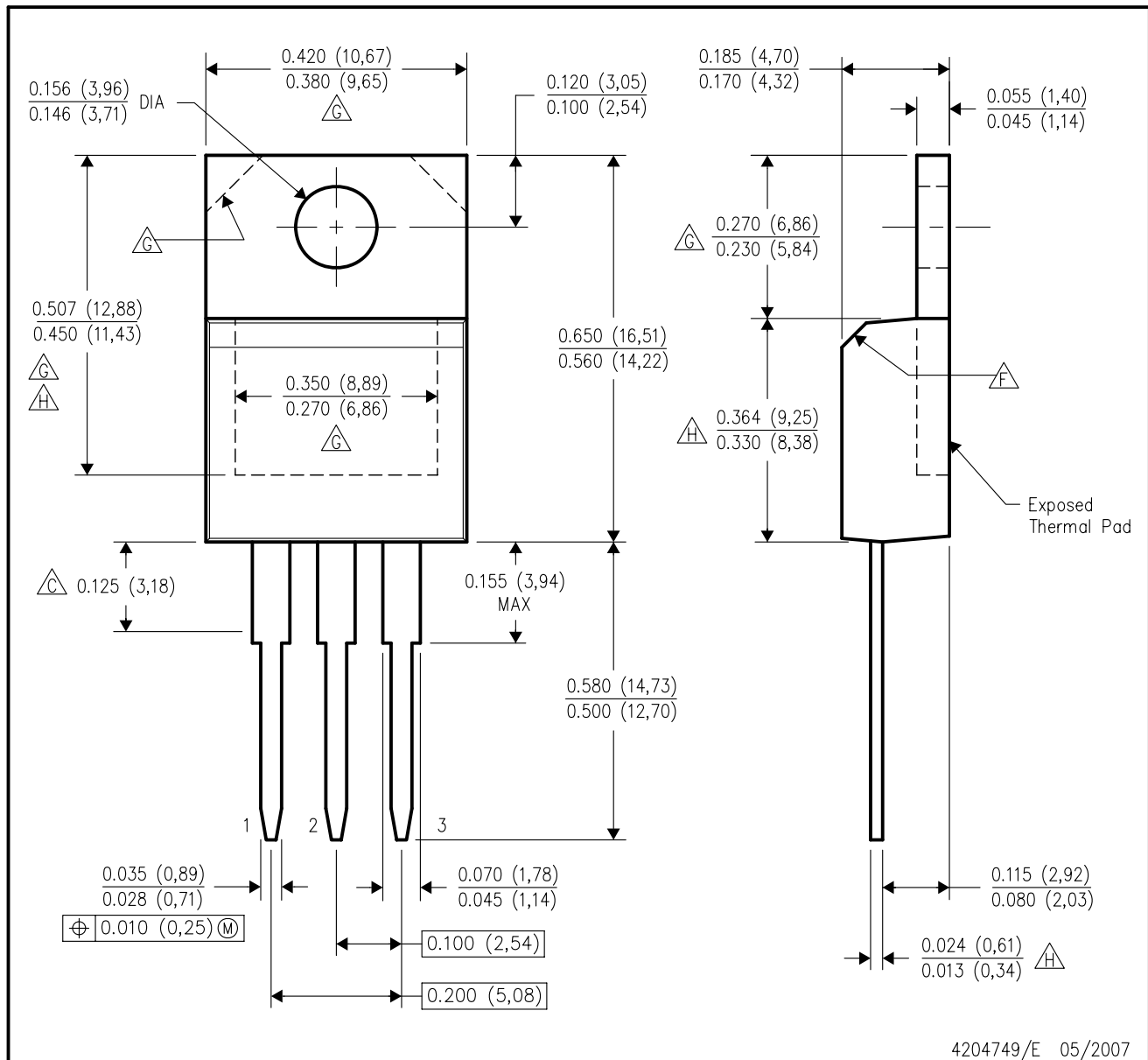


- NOTES:
- All linear dimensions are in inches (millimeters).
 - This drawing is subject to change without notice.
 - The center lead is in electrical contact with the thermal tab.
 - Dimensions do not include mold protrusions, not to exceed 0.006 (0,15).
 - Falls within JEDEC TO-252 variation AC.

PowerFLEX is a trademark of Texas Instruments.

KCS (R-PSFM-T3)

PLASTIC FLANGE-MOUNT PACKAGE



4204749/E 05/2007

- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. Lead dimensions are not controlled within this area.
 - D. All lead dimensions apply before solder dip.
 - E. The center lead is in electrical contact with the mounting tab.

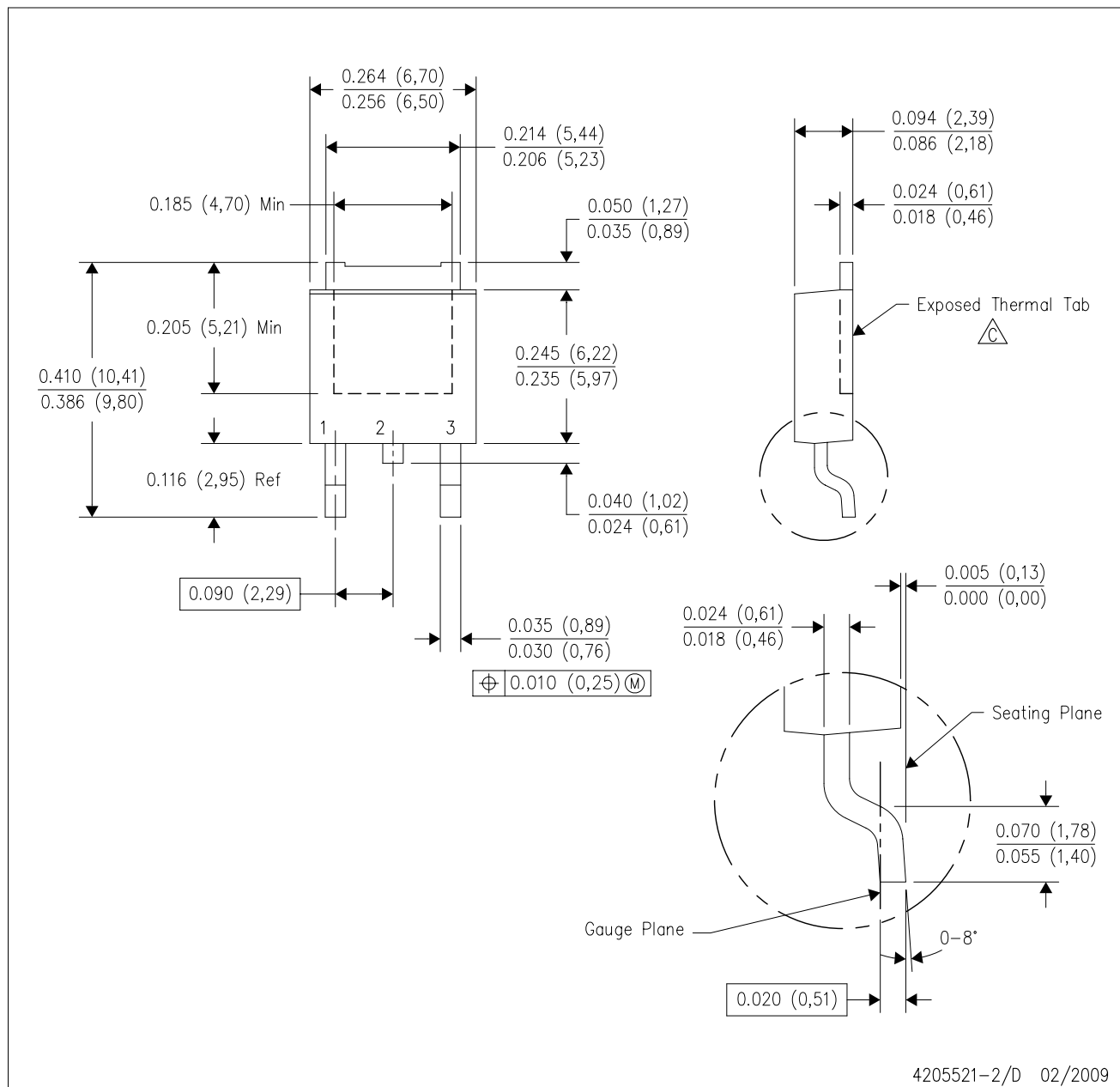
F. The chamfer is optional.

G. Thermal pad contour optional within these dimensions.

H. Falls within JEDEC TO-220 variation AB, except minimum lead thickness, minimum exposed pad length, and maximum body length.

KVU (R-PSFM-G3)

PLASTIC FLANGE-MOUNT PACKAGE

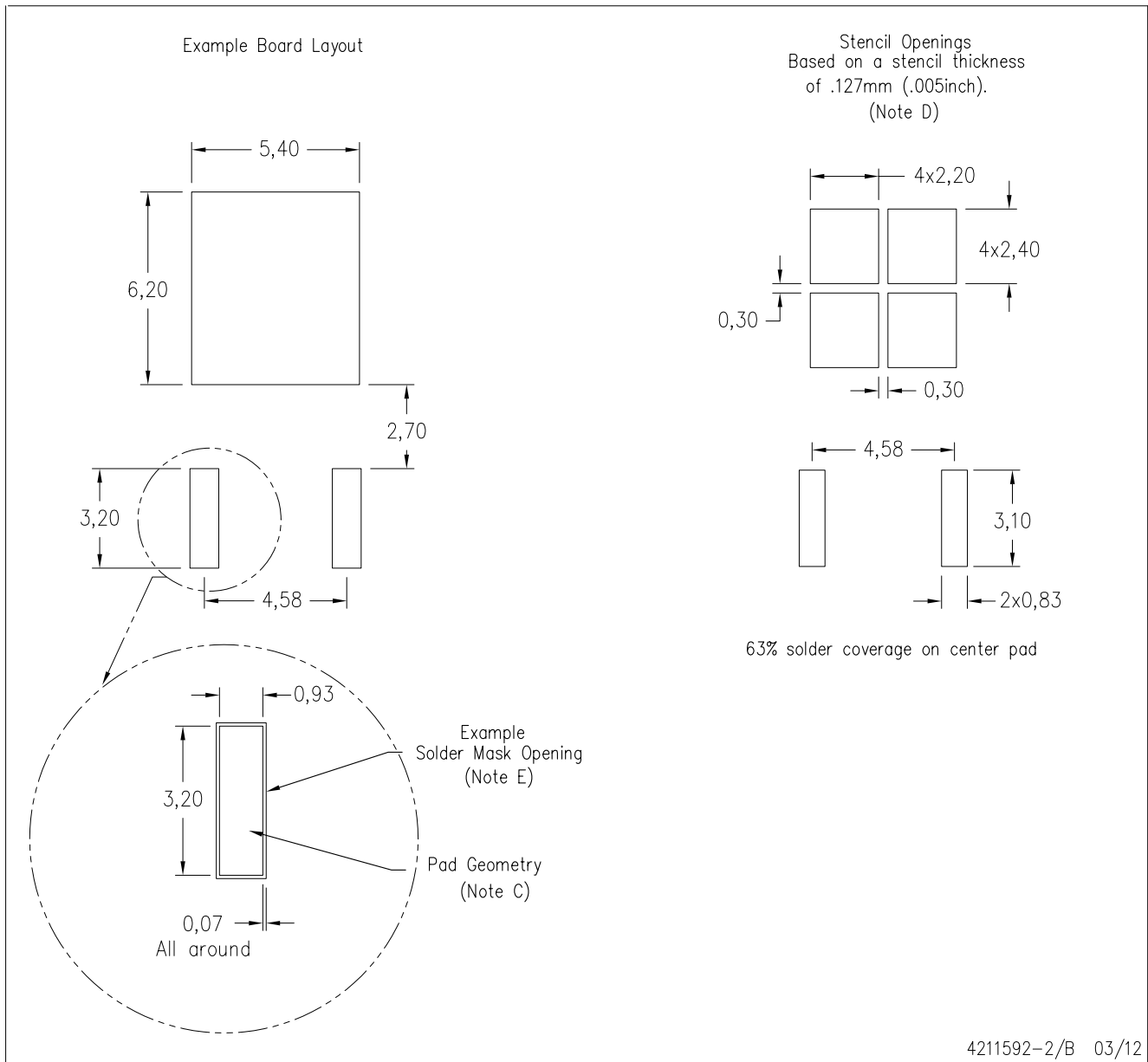


NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. The center lead is in electrical contact with the exposed thermal tab.
- D. Body Dimensions do not include mold flash or protrusions. Mold flash and protrusion shall not exceed 0.006 (0,15) per side.
- E. Falls within JEDEC TO-252 variation AA.

KVU (R-PSFM-G3)

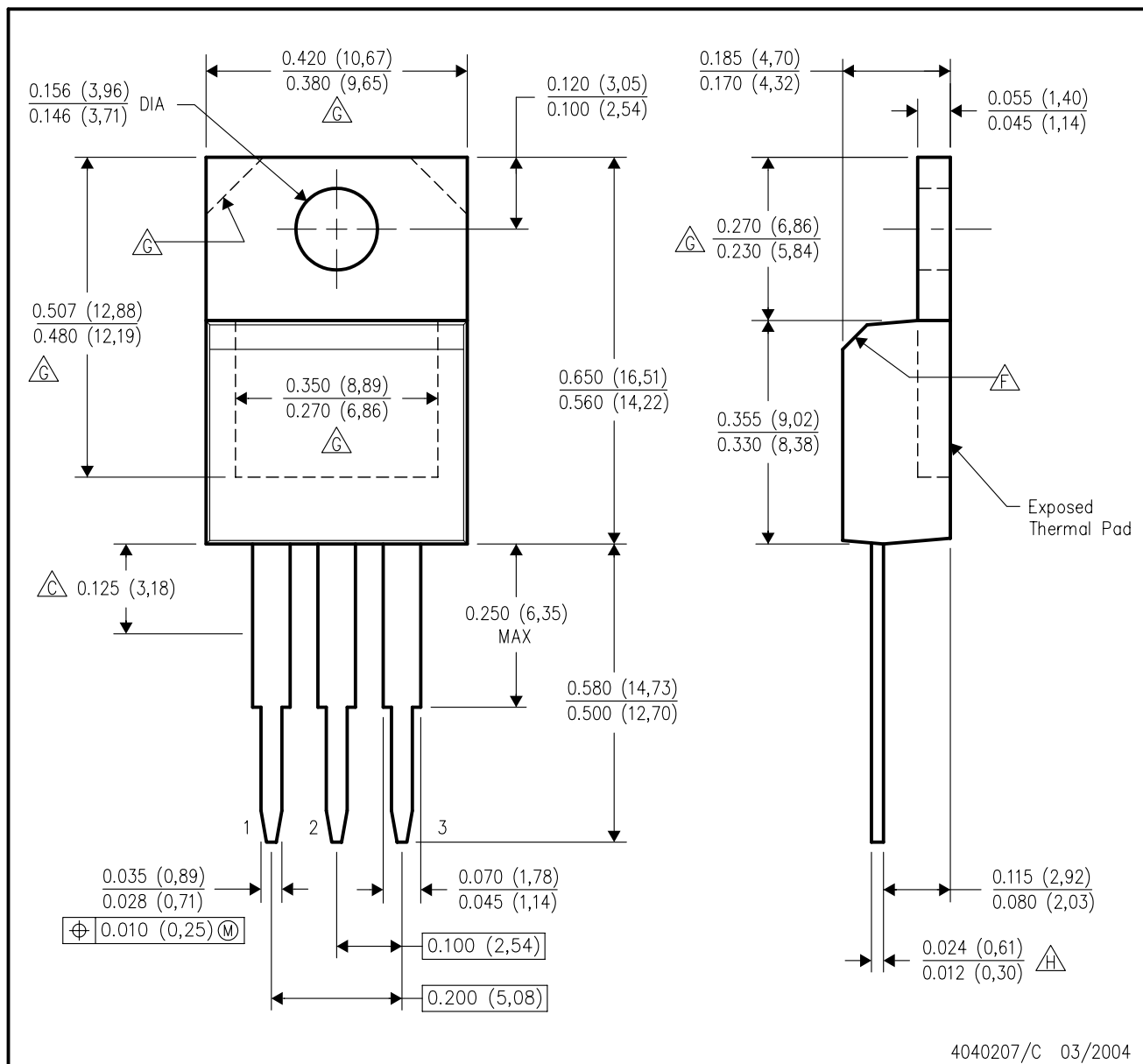
PLASTIC FLANGE MOUNT PACKAGE



- NOTES:
- All linear dimensions are in millimeters.
 - This drawing is subject to change without notice.
 - Publication IPC-SM-782 is an alternate information source for PCB land pattern designs.
 - Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 - Customers should contact their board fabrication site for recommended solder mask tolerances and via tenting recommendations for vias placed in thermal pad.

KC (R-PSFM-T3)

PLASTIC FLANGE-MOUNT PACKAGE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Lead dimensions are not controlled within this area.
- D. All lead dimensions apply before solder dip.
- E. The center lead is in electrical contact with the mounting tab.
- F. The chamfer is optional.
- G. Thermal pad contour optional within these dimensions.
- H. Falls within JEDEC TO-220 variation AB, except minimum lead thickness.

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TI E2E Community

e2e.ti.com

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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