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FCPF260N65FL1

N-Channel SuperFET® II FRFET® MOSFET

650 V, 15 A, 260 mΩ

December 2014



Features

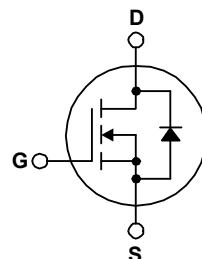
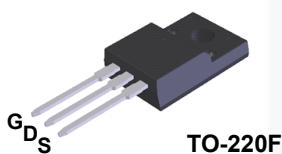
- 700 V @ $T_J = 150^\circ\text{C}$
- $R_{DS(on)} = 220 \text{ m}\Omega$ (Typ.)
- Ultra Low Gate Charge (Typ. $Q_g = 46 \text{ nC}$)
- Low Effective Output Capacitance (Typ. $C_{oss(\text{eff.})} = 223 \text{ pF}$)
- 100% Avalanche Tested
- RoHS Compliant

Applications

- LCD / LED / PDP TV
- Solar Inverter
- Telecom / Server Power Supplies
- AC - DC Power Supply

Description

SuperFET® II MOSFET is Fairchild Semiconductor's brand-new high voltage super-junction (SJ) MOSFET family that is utilizing charge balance technology for outstanding low on-resistance and lower gate charge performance. This technology is tailored to minimize conduction loss, provide superior switching performance, dv/dt rate and higher avalanche energy. Consequently, SuperFET II MOSFET is very suitable for the switching power applications such as PFC, server/telecom power, FPD TV power, ATX power and industrial power applications. SuperFET II FRFET® MOSFET's optimized body diode reverse recovery performance can remove additional component and improve system reliability.



Absolute Maximum Ratings $T_C = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter		FCPF260N65FL1	Unit
V_{DSS}	Drain to Source Voltage		650	V
V_{GSS}	Gate to Source Voltage	- DC	± 20	V
		- AC ($f > 1 \text{ Hz}$)	± 30	
I_D	Drain Current	- Continuous ($T_C = 25^\circ\text{C}$)	15	A
		- Continuous ($T_C = 100^\circ\text{C}$)	9.5	
I_{DM}	Drain Current	- Pulsed	(Note 1)	A
E_{AS}	Single Pulsed Avalanche Energy		(Note 2)	mJ
I_{AR}	Avalanche Current		(Note 1)	A
E_{AR}	Repetitive Avalanche Energy		(Note 1)	mJ
dv/dt	MOSFET dv/dt		100	V/ns
	Peak Diode Recovery dv/dt		(Note 3)	
P_D	Power Dissipation	($T_C = 25^\circ\text{C}$)	36	W
		- Derate Above 25°C	0.29	
T_J, T_{STG}	Operating and Storage Temperature Range		-55 to +150	$^\circ\text{C}$
T_L	Maximum Lead Temperature for Soldering, 1/8" from Case for 5 Seconds		300	$^\circ\text{C}$

Thermal Characteristics

Symbol	Parameter	FCPF260N65FL1	Unit
$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max.	3.5	$^\circ\text{C}/\text{W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max.	62.5	

Package Marking and Ordering Information

Part Number	Top Mark	Package	Packing Method	Reel Size	Tape Width	Quantity
FCPF260N65FL1	FCPF260N65F	TO-220F	Tube	N/A	N/A	50 units

Electrical Characteristics $T_C = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
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Off Characteristics

BV _{DSS}	Drain to Source Breakdown Voltage	$V_{GS} = 0 \text{ V}$, $I_D = 10 \text{ mA}$, $T_J = 25^\circ\text{C}$	650	-	-	V
		$V_{GS} = 0 \text{ V}$, $I_D = 10 \text{ mA}$, $T_J = 150^\circ\text{C}$	700	-	-	V
ΔBV_{DSS} / ΔT_J	Breakdown Voltage Temperature Coefficient	$I_D = 10 \text{ mA}$, Referenced to 25°C	-	0.72	-	$\text{V}/^\circ\text{C}$
I _{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = 650 \text{ V}$, $V_{GS} = 0 \text{ V}$	-	-	10	μA
		$V_{DS} = 520 \text{ V}$, $V_{GS} = 0 \text{ V}$, $T_C = 125^\circ\text{C}$	-	40	-	μA
I _{GSS}	Gate to Body Leakage Current	$V_{GS} = \pm 20 \text{ V}$, $V_{DS} = 0 \text{ V}$	-	-	± 100	μA

On Characteristics

$V_{GS(\text{th})}$	Gate Threshold Voltage	$V_{GS} = V_{DS}$, $I_D = 1.5 \text{ mA}$	3	-	5	V
$R_{DS(\text{on})}$	Static Drain to Source On Resistance	$V_{GS} = 10 \text{ V}$, $I_D = 7.5 \text{ A}$	-	220	260	$\text{m}\Omega$
g_{FS}	Forward Transconductance	$V_{DS} = 20 \text{ V}$, $I_D = 7.5 \text{ A}$	-	14.2	-	S

Dynamic Characteristics

C_{iss}	Input Capacitance	$V_{DS} = 100 \text{ V}$, $V_{GS} = 0 \text{ V}$, $f = 1 \text{ MHz}$	-	1760	2340	pF
C_{oss}	Output Capacitance		-	59	80	pF
C_{rss}	Reverse Transfer Capacitance		-	1.0	-	pF
C_{oss}	Output Capacitance	$V_{DS} = 380 \text{ V}$, $V_{GS} = 0 \text{ V}$, $f = 1 \text{ MHz}$	-	34	-	pF
$C_{oss(\text{eff.})}$	Effective Output Capacitance	$V_{DS} = 0 \text{ V}$ to 400 V , $V_{GS} = 0 \text{ V}$	-	223	-	pF
$Q_g(\text{tot})$	Total Gate Charge at 10V	$V_{DS} = 380 \text{ V}$, $I_D = 7.5 \text{ A}$, $V_{GS} = 10 \text{ V}$	-	46	60	nC
Q_{gs}	Gate to Source Gate Charge	(Note 4)	-	9.6	-	nC
Q_{gd}	Gate to Drain "Miller" Charge		-	20	-	nC
ESR	Equivalent Series Resistance	$f = 1 \text{ MHz}$	-	0.52	-	Ω

Switching Characteristics

$t_{d(on)}$	Turn-On Delay Time	$V_{DD} = 380 \text{ V}$, $I_D = 7.5 \text{ A}$, $V_{GS} = 10 \text{ V}$, $R_g = 4.7 \Omega$	-	21.7	54	ns
t_r	Turn-On Rise Time		-	10.5	32	ns
$t_{d(off)}$	Turn-Off Delay Time		-	54	118	ns
t_f	Turn-Off Fall Time		(Note 4)	-	5.8	22

Drain-Source Diode Characteristics

I_S	Maximum Continuous Drain to Source Diode Forward Current	-	-	15	A	
I_{SM}	Maximum Pulsed Drain to Source Diode Forward Current	-	-	45	A	
V_{SD}	Drain to Source Diode Forward Voltage	$V_{GS} = 0 \text{ V}$, $I_{SD} = 7.5 \text{ A}$	-	-	V	
t_{rr}	Reverse Recovery Time	$V_{GS} = 0 \text{ V}$, $I_{SD} = 7.5 \text{ A}$, $di_F/dt = 100 \text{ A}/\mu\text{s}$	-	98	-	ns
Q_{rr}	Reverse Recovery Charge	-	450	-	nC	

Notes:

1. Repetitive rating: pulse width limited by maximum junction temperature.

2. $I_{AS} = 3 \text{ A}$, $R_G = 25 \Omega$, Starting $T_J = 25^\circ\text{C}$

3. $I_{SD} \leq 7.5 \text{ A}$, $di/dt \leq 200 \text{ A}/\mu\text{s}$, $V_{DD} \leq 380 \text{ V}$, Starting $T_J = 25^\circ\text{C}$

4. Essentially independent of operating temperature.

Typical Performance Characteristics

Figure 1. On-Region Characteristics

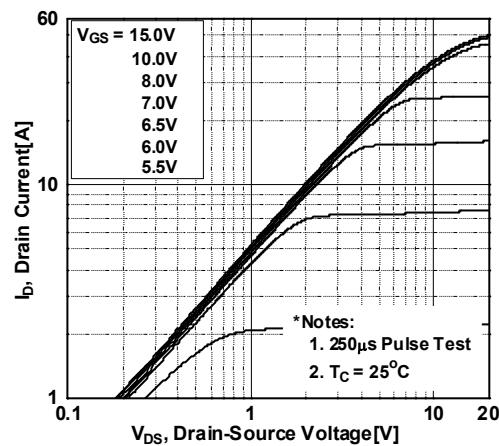


Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage

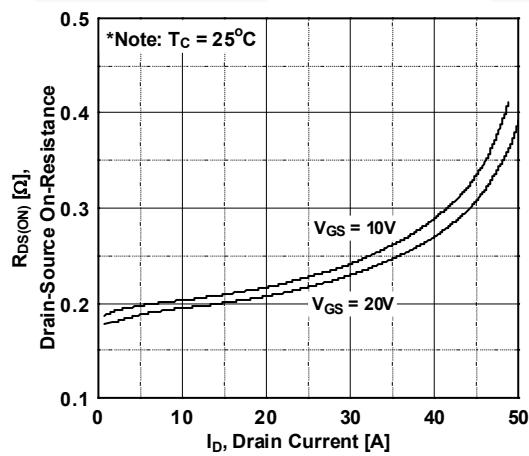


Figure 5. Capacitance Characteristics

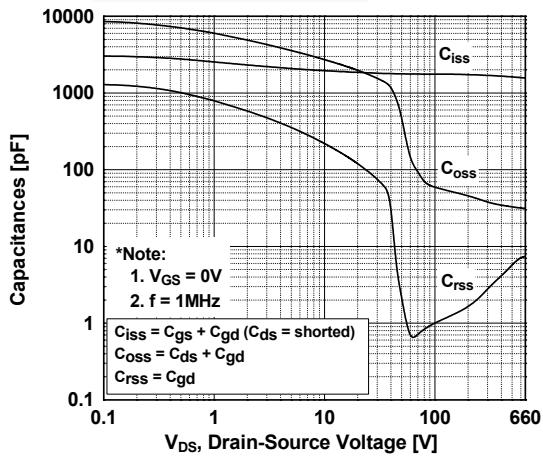


Figure 2. Transfer Characteristics

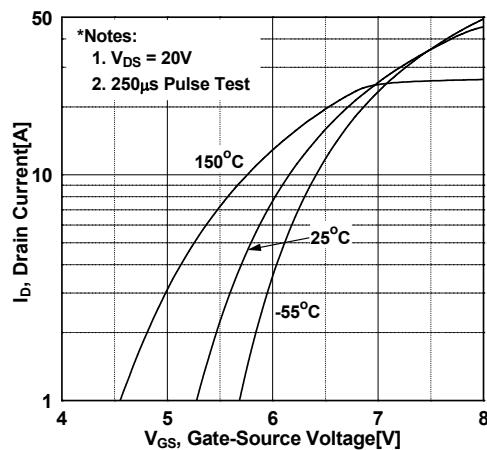


Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature

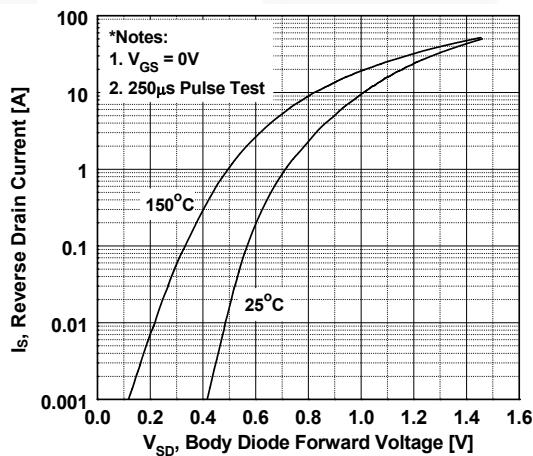
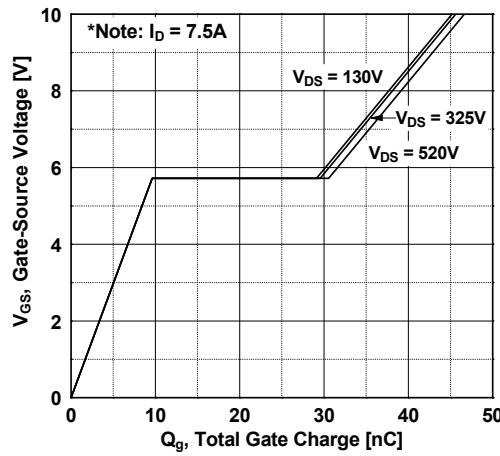


Figure 6. Gate Charge Characteristics



Typical Performance Characteristics (Continued)

Figure 7. Breakdown Voltage Variation vs. Temperature

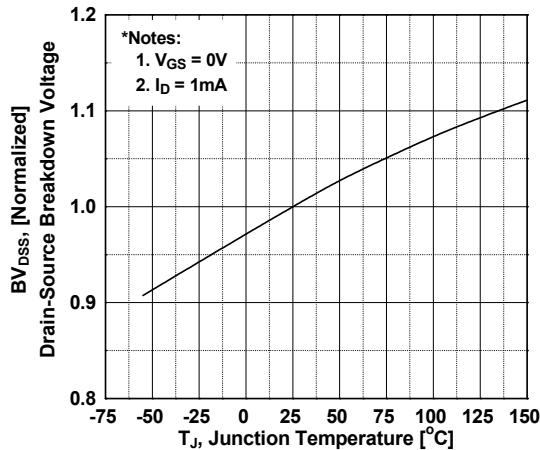


Figure 8. On-Resistance Variation vs. Temperature

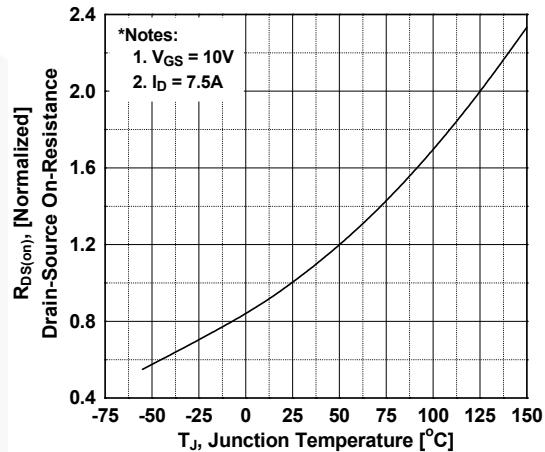


Figure 9. Maximum Safe Operating Area

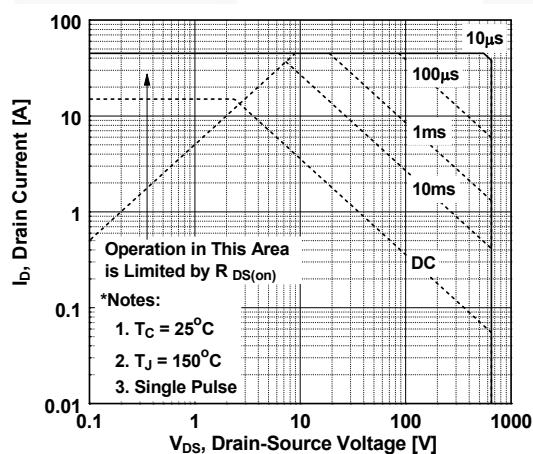


Figure 10. Maximum Drain Current vs. Case Temperature

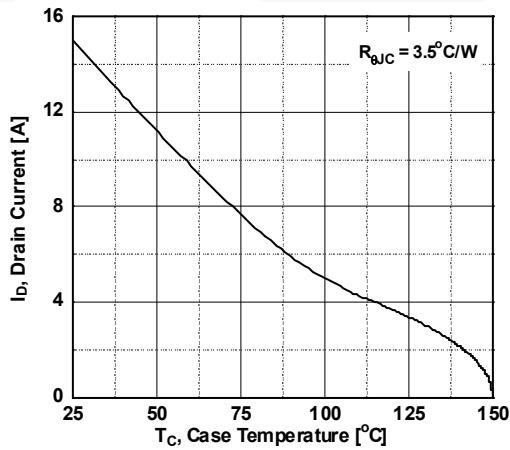
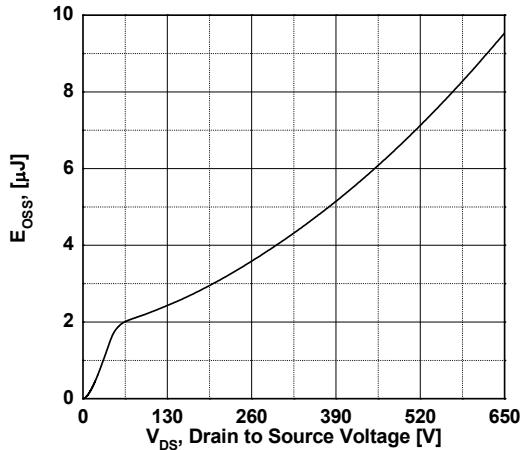
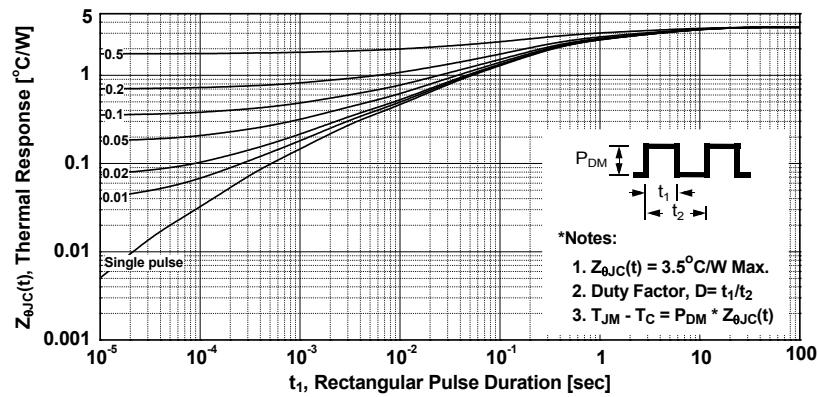


Figure 11. Eoss vs. Drain to Source Voltage



Typical Performance Characteristics (Continued)

Figure 12. Transient Thermal Response Curve



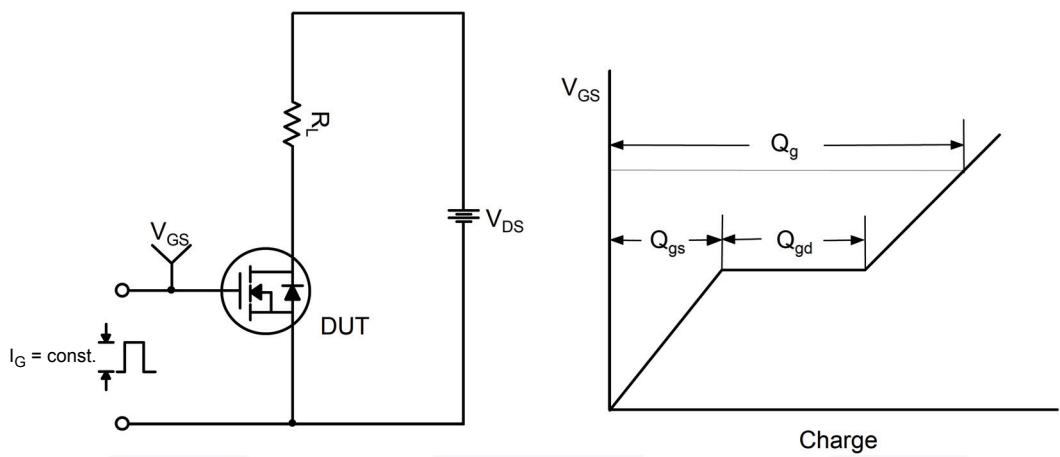


Figure 13. Gate Charge Test Circuit & Waveform

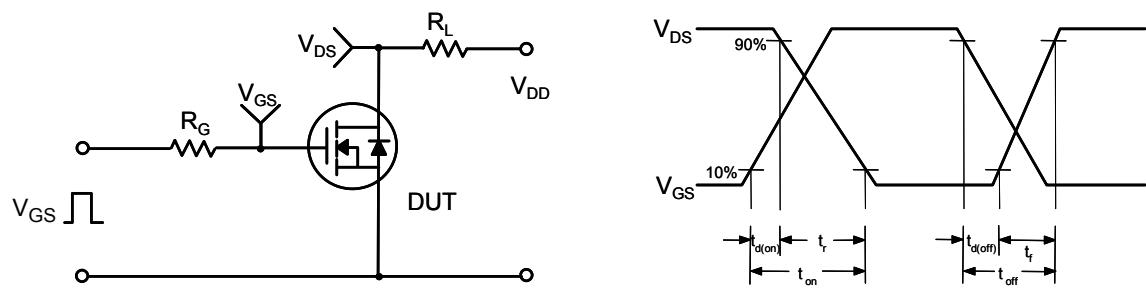


Figure 14. Resistive Switching Test Circuit & Waveforms

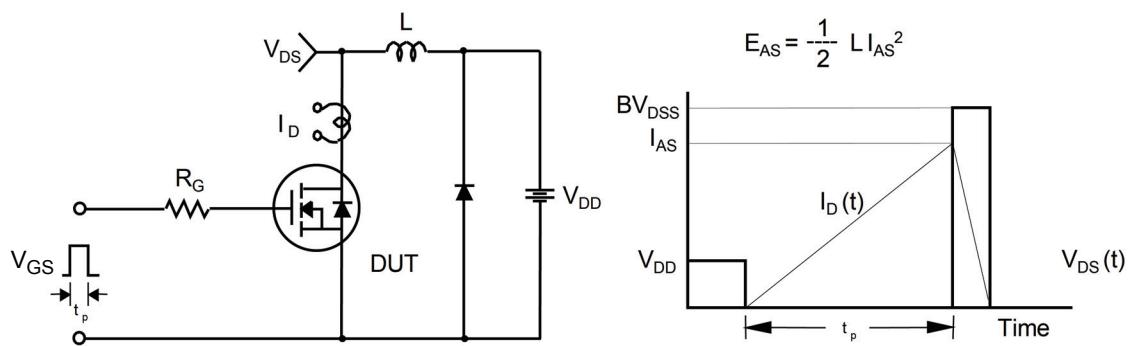


Figure 15. Unclamped Inductive Switching Test Circuit & Waveforms

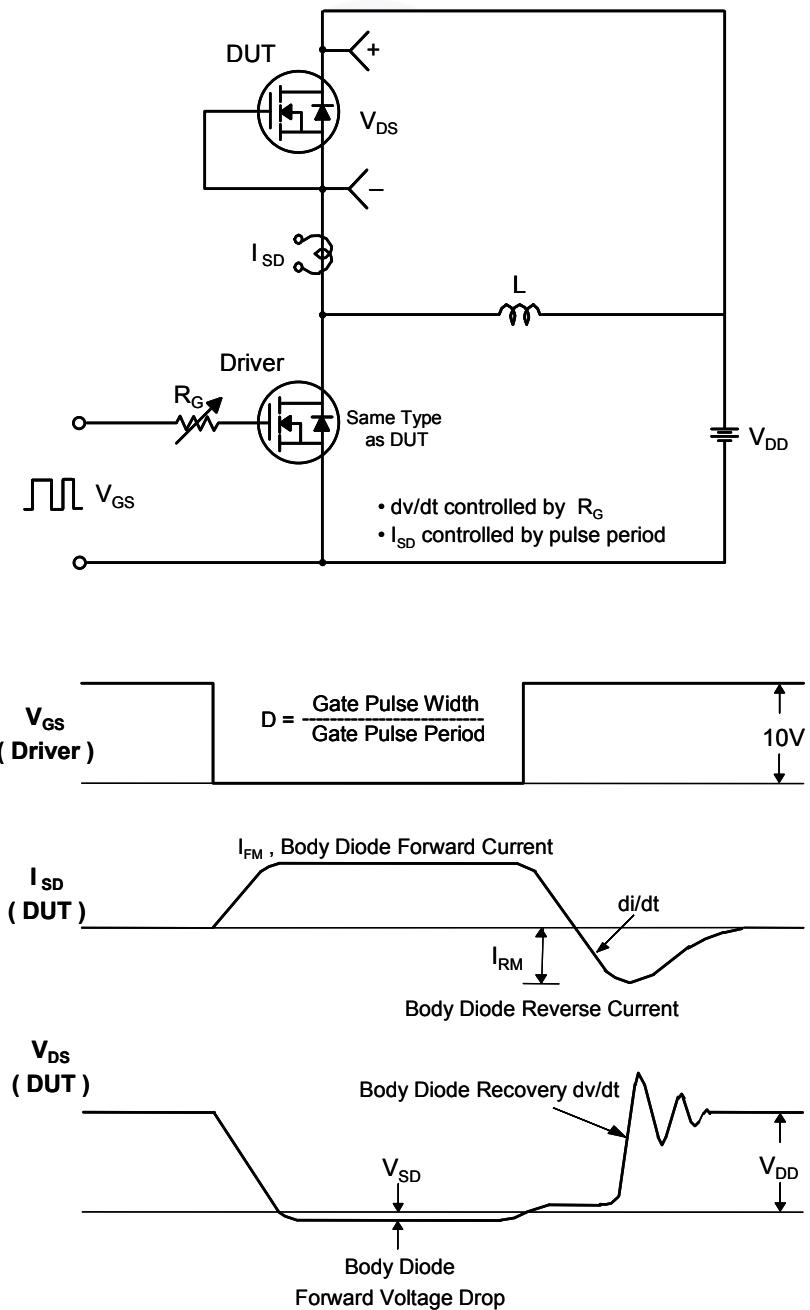


Figure 16. Peak Diode Recovery dv/dt Test Circuit & Waveforms

Mechanical Dimensions

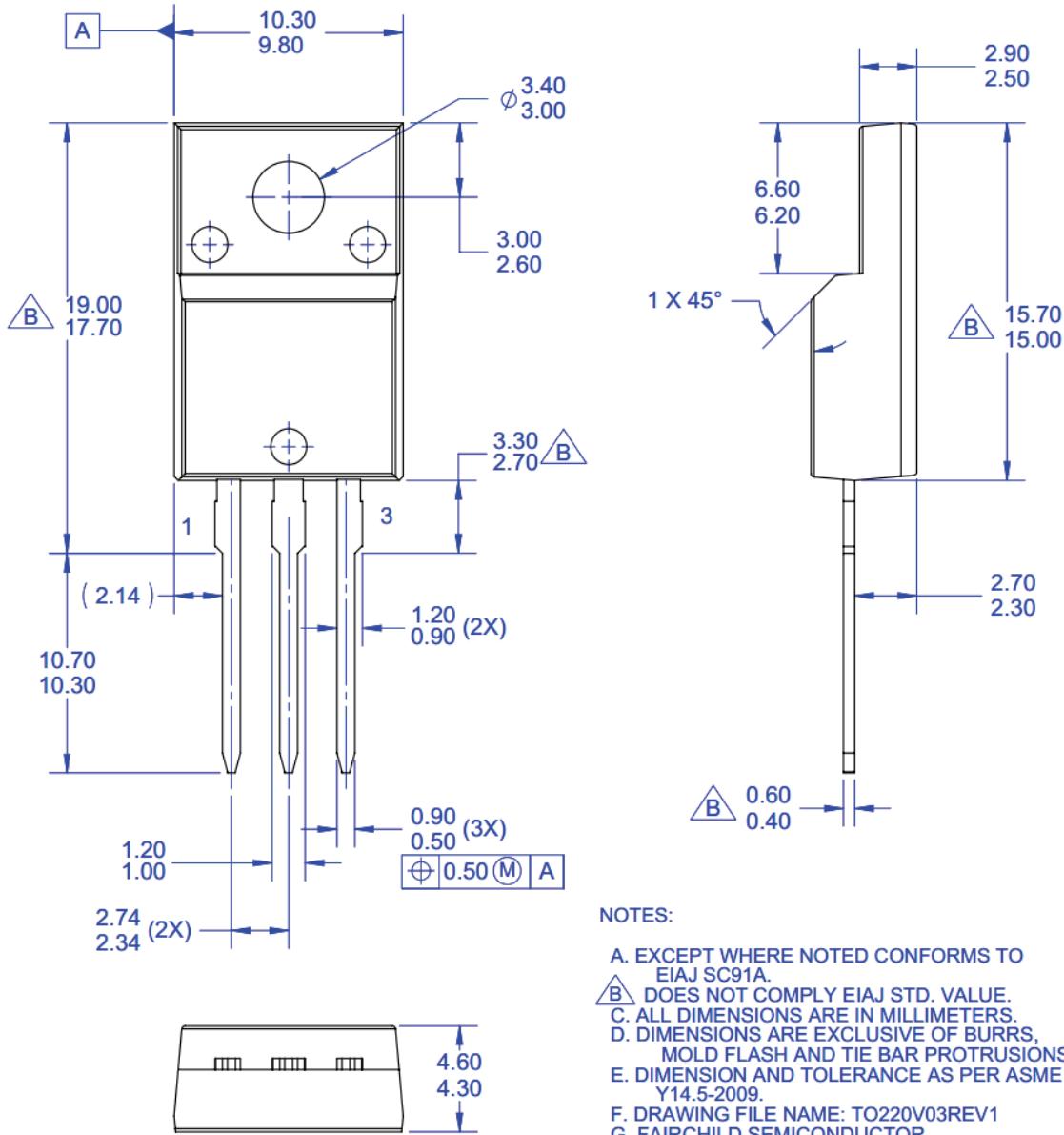


Figure 17. TO220, Molded, 3LD, Full Pack, EIAJ SC91, Takcheong

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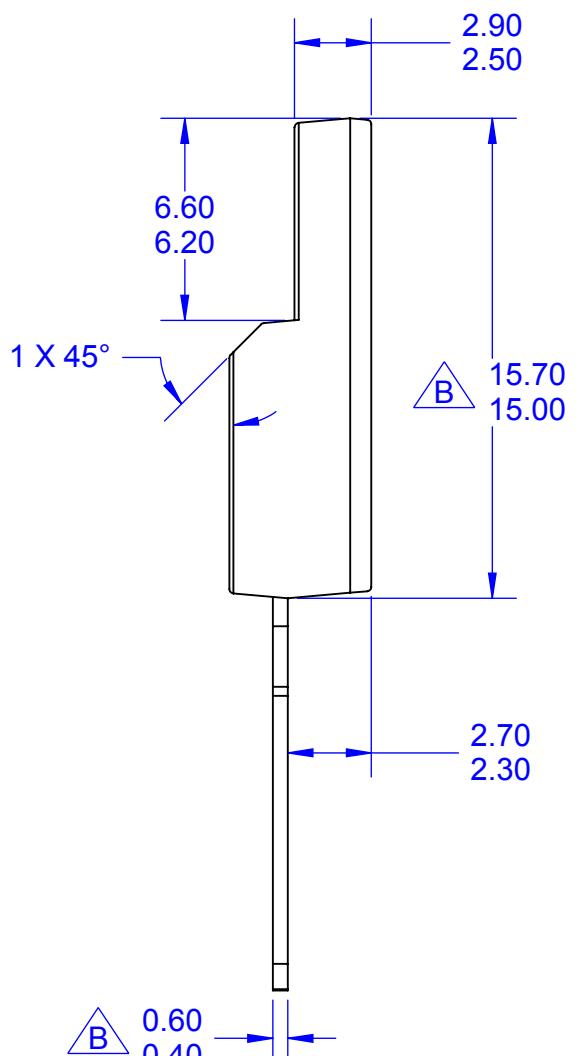
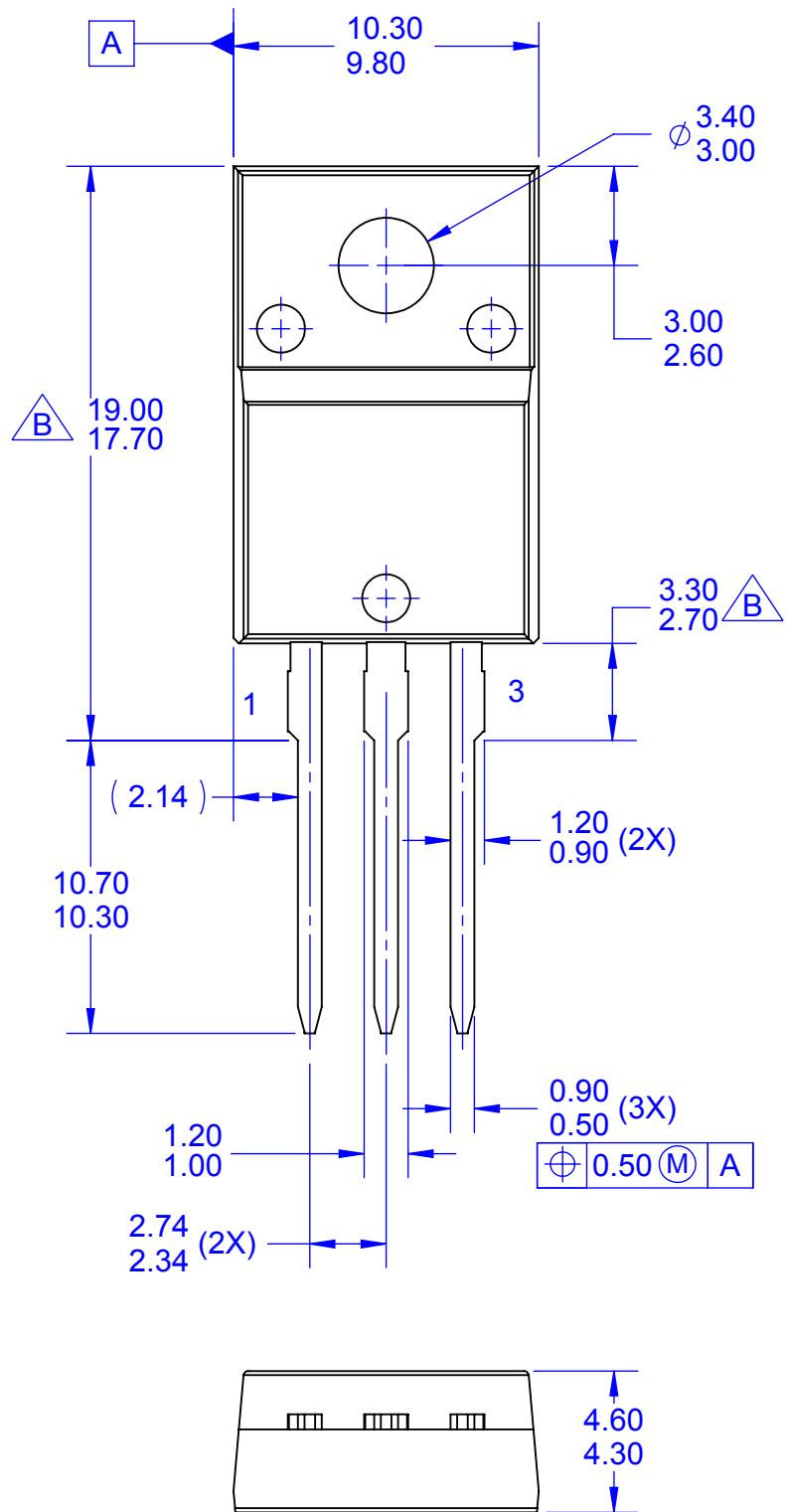
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- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибутором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибутором 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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