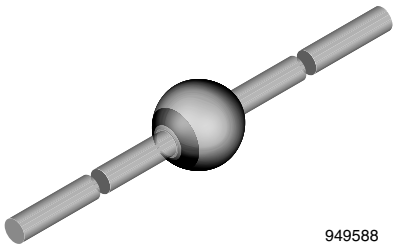
Fast Avalanche Sinterglass Diode



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FEATURES

- Glass passivated junction
- Hermetically sealed package
- Low reverse current
- Soft recovery characteristics
- Material categorization:
  For definitions of compliance please see www.vishay.com/doc?99912

Pb e2 RoHS COMPLIANT HALOGEN FREE

MECHANICAL DATA

Case: SOD-64

Terminals: plated axial leads, solderable per MIL-STD-750, method 2026

Polarity: color band denotes cathode end

Mounting position: any

Weight: approx. 858 mg

APPLICATIONS

- Fast rectification and switching diode for example for TV-line output circuits and switch mode power supply

ORDERING INFORMATION (Example)

DEVICE NAME	ORDERING CODE	TAPED UNITS	MINIMUM ORDER QUANTITY
BYW72 or **BYW73**	BYW73-TR	2500 per 10" tape and reel	12 500
BYW72 or **BYW73**	BYW73-TAP	2500 per ammopack	12 500
BYW74 or BYW75 or **BYW76**	BYW76TR	2500 per 10" tape and reel	12 500
BYW74 or BYW75 or **BYW76**	BYW76TAP	2500 per ammopack	12 500

PARTS TABLE

PART	TYPE DIFFERENTIATION	PACKAGE
BYW72	V_R = 200 V; $I_{F(AV)}$ = 3 A	SOD-64
BYW73	V_R = 300 V; $I_{F(AV)}$ = 3 A	SOD-64
BYW74	V_R = 400 V; $I_{F(AV)}$ = 3 A	SOD-64
BYW75	V_R = 500 V; $I_{F(AV)}$ = 3 A	SOD-64
BYW76	V_R = 600 V; $I_{F(AV)}$ = 3 A	SOD-64

ABSOLUTE MAXIMUM RATINGS (T_{amb} = 25 °C, unless otherwise specified)

PARAMETER	TEST CONDITION	PART	SYMBOL	VALUE	UNIT
Reverse voltage = repetitive peak reverse voltage	See electrical characteristics	BYW72	$V_R = V_{RRM}$	200	V
		BYW73	$V_R = V_{RRM}$	300	V
		BYW74	$V_R = V_{RRM}$	400	V
		BYW75	$V_R = V_{RRM}$	500	V
		BYW76	$V_R = V_{RRM}$	600	V
Peak forward surge current	t_p = 10 ms, half sine wave		I_{FSM}	100	A
Repetitive peak forward current			I_{FRM}	15	A
Average forward current			$I_{F(AV)}$	3	A
Non repetitive reverse avalanche energy	$I_{(BR)R}$ = 0.4 A		E_R	10	mJ
Junction and storage temperature range			$T_j = T_{stg}$	- 55 to + 175	°C

MAXIMUM THERMAL RESISTANCE (T_{amb} = 25 °C, unless otherwise specified)				
PARAMETER	**TEST CONDITION**	**SYMBOL**	**VALUE**	**UNIT**
Junction ambient	Lead length l = 10 mm, T_L = constant	R_{thJA}	25	K/W
	On PC board with spacing 25 mm	R_{thJA}	70	K/W

ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)							
PARAMETER	**TEST CONDITION**	**PART**	**SYMBOL**	**MIN.**	**TYP.**	**MAX.**	**UNIT**
Forward voltage	I_F = 3 A		V_F	-	0.95	1.1	V
Reverse current	$V_R = V_{RRM}$		I_R	-	1	5	µA
	$V_R = V_{RRM}$, T_j = 150 °C		I_R	-	60	150	µA
Reverse recovery time	I_F = 0.5 A, I_R = 1 A, i_R = 0.25 A		t_{rr}	-	-	200	ns

TYPICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

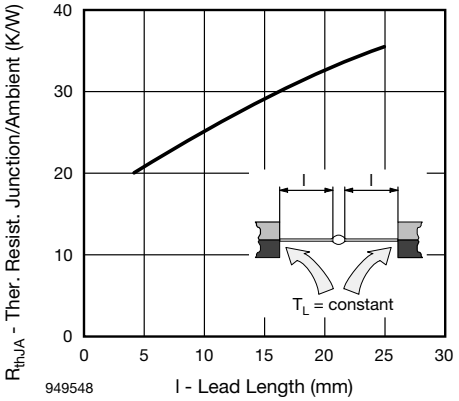


Fig. 1 - Max. Thermal Resistance vs. Lead Length

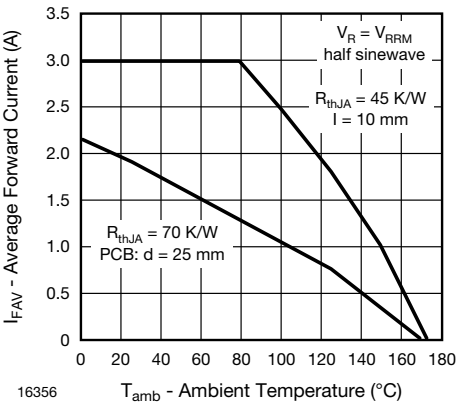


Fig. 3 - Max. Average Forward Current vs. Ambient Temperature

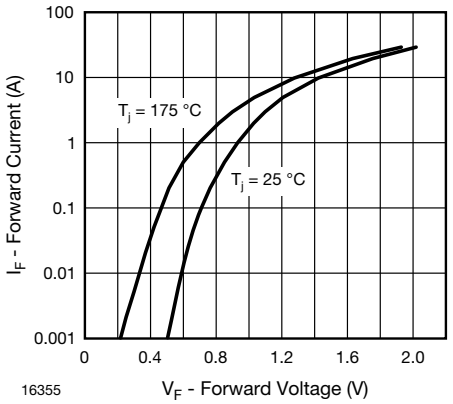


Fig. 2 - Max. Forward Current vs. Forward Voltage

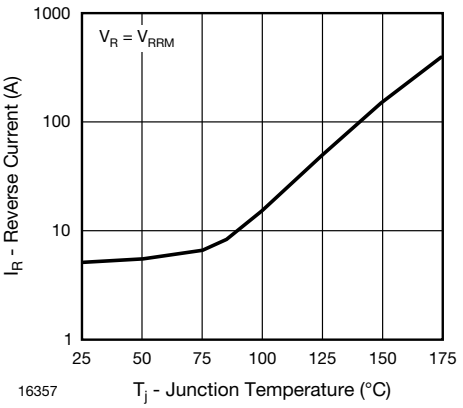


Fig. 4 - Max. Reverse Current vs. Junction Temperature

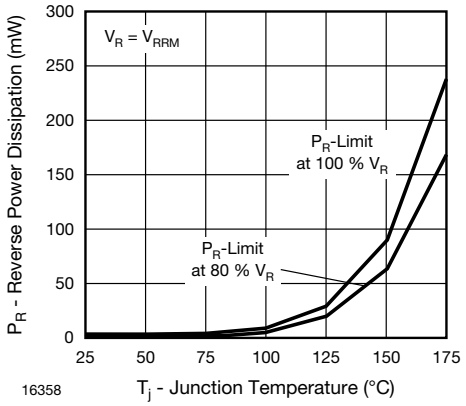


Fig. 5 - Max. Reverse Power Dissipation vs. Junction Temperature

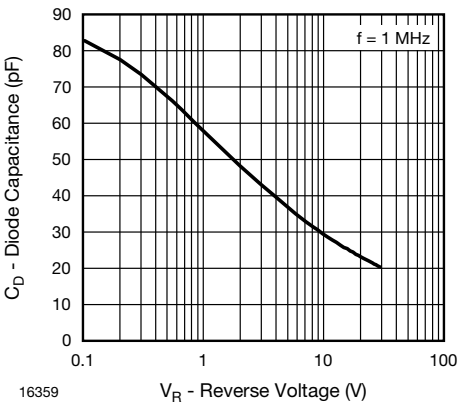


Fig. 6 - Diode Capacitance vs. Reverse Voltage

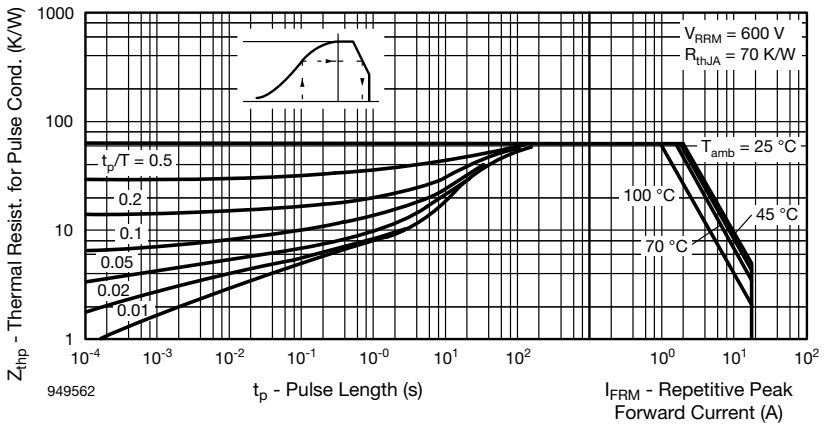
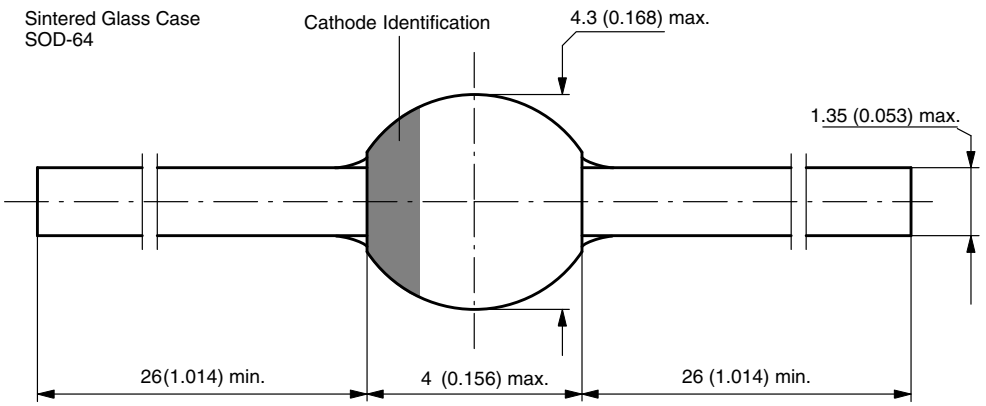


Fig. 7 - Thermal Response

PACKAGE DIMENSIONS in millimeters (inches): **SOD-64**



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Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А