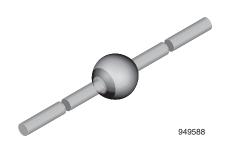


Vishay Semiconductors

Standard Avalanche Sinterglass Diode



FEATURES

- · Glass passivated junction
- · Hermetically sealed package
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS

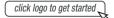
HALOGEN

FREE

APPLICATIONS

- High voltage rectification
- Effficiency diode in horizontal deflection circuits

DESIGN SUPPORT TOOLS





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

ORDERING INFORMATION (Example)						
DEVICE NAME ORDERING CODE TAPED UNITS MINIMUM ORDER QUANT						
BY228-15	BY228-15TR	2500 per 10" tape and reel	12 500			
BY228-15	BY228-15TAP	2500 per ammopack	12 500			

PARTS TABLE						
PART	TYPE DIFFERENTIATION	PACKAGE				
BY228-13	V _R = 1000 V; I _{F(AV)} = 3 A	SOD-64				
BY228-15	$V_R = 1200 \text{ V}; I_{F(AV)} = 3 \text{ A}$	SOD-64				

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	VALUE	UNIT		
Reverse voltage	See electrical characteristics	BY228-13	V_R	1000	V		
neverse voltage	See electrical characteristics	BY228-15	V_R	1200	V		
Dook reverse voltage, non repetitive	I _R = 100 μA	BY228-13	V_{RSM}	1300	V		
Peak reverse voltage, non repetitive	I _R = 100 μA	BY228-15	V_{RSM}	1500	٧		
Peak forward surge current	$t_p = 10 \text{ ms}$, half sine wave		I _{FSM}	50	Α		
Average forward current			I _{F(AV)}	3	Α		
Junction temperature			Tj	140	°C		
Storage temperature range			T _{stg}	-55 to +175	°C		
Non repetitive reverse avalanche energy	I _{(BR)R} = 0.4 A		E _R	10	mJ		

MAXIMUM THERMAL RESISTANCE (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Junction ambient	On PC board with spacing 25 mm	R_{thJA}	70	K/W		

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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I _F = 5 A		V_{F}	-	-	1.5	V
	V _R = 1000 V	BY228-13	I _R	-	2	5	μA
Reverse current	V _R = 1200 V	BY228-15	I _R	-	2	5	μA
neverse current	V _R = 1000 V, T _j = 140 °C	BY228-13	I _R	-	-	140	μA
	V _R = 1200 V, T _j = 140 °C	BY228-15	I _R	-	-	140	μA
Reverse recovery time	I _F = 0.5 A, I _R = 1 A, i _R = 0.25 A		t _{rr}	-	-	2	μs
Total reverse recovery time	$I_F = 1 \text{ A}, - dI_F/dt = 0.05 \text{ A/}\mu\text{s}$		t _{rr}	-	-	20	μs

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

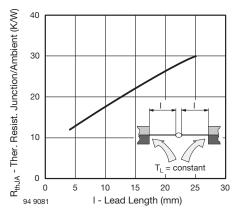


Fig. 1 - Typ. Thermal Resistance vs. Lead Length

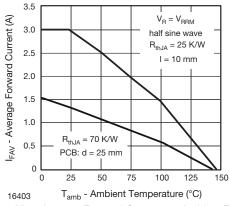


Fig. 3 - Max. Average Forward Current vs. Ambient Temperature

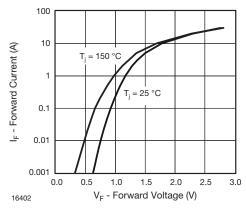


Fig. 2 - Forward Current vs. Forward Voltage

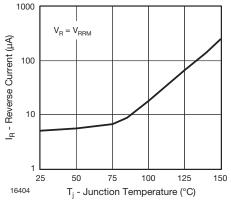


Fig. 4 - Reverse Current vs. Junction Temperature

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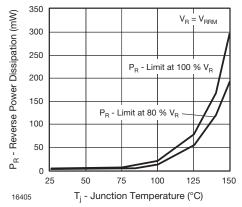


Fig. 5 - Diode Capacitance vs. Reverse Voltage

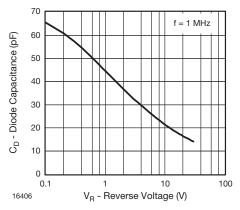
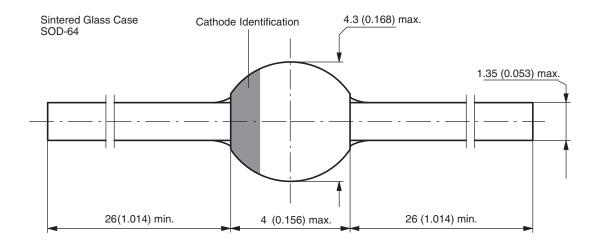


Fig. 6 - Diode Capacitance vs. Reverse Voltage

PACKAGE DIMENSIONS in millimeters (inches): SOD-64



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