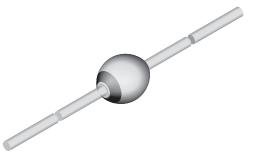
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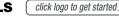
Vishay Semiconductors

Standard Avalanche Sinterglass Diode



949539

DESIGN SUPPORT TOOLS





MECHANICAL DATA

Case: SOD-57

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

Polarity: color band denotes cathode end

Mounting position: any

Weight: approx. 369 mg

ORDERING INFORMATION (Example)					
DEVICE NAME	ORDERING CODE	TAPED UNITS	MINIMUM ORDER QUANTITY		
BYT62	BYT62-TR	5000 per 10" tape and reel	25 000		
BYT62	BYT62-TAP	5000 per ammopack	25 000		

PARTS TABLE					
PART	TYPE DIFFERENTIATION	PACKAGE			
BYT62	V _R = 2400 V; I _{F(AV)} = 350 mA	SOD-57			

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	BYT62	$V_{R} = V_{RRM}$	2400	V		
Peak forward surge current	t _p = 10 ms, half sine wave		I _{FSM}	10	А		
Average forward current	$R_{thJA} \le 60 \text{ K/W}$		I _{F(AV)}	0.350	А		
Non repetitive reverse avalanche energy	$I_{(BR)R} = 1$ A, inductive load		E _R	60	mJ		
Junction temperature			Tj	175	°C		
Storage temperature range			T _{stg}	-55 to +190	°C		

MAXIMUM THERMAL RESISTANCE (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Junction ambient	Lead length I = 10 mm, T_L = constant	R _{thJA}	60	K/W	

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APPLICATIONS

FEATURES

Glass passivated junctionHermetically sealed package

Low reverse current

• Material categorization:

· Controlled avalanche characteristics

for definitions of compliance please see

• High voltage rectification diode

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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX	UNIT
Forward voltage	I _F = 0.2 A	V _F	-	-	3	V
	I _F = 1 A	V _F	-	-	3.6	V
	I _F = 1 A, T _j = 175 °C	V _F	-	-	2.9	V
	I _F = 1 A, T _j = - 40 °C	V _F	-	-	4	V
Reverse current	$V_{R} = V_{RRM}$	I _R	-	-	5	μA
	V _R = V _{RRM} , T _j = 175 °C	I _R	-	-	250	μA
	$V_{R} = V_{RRM}, T_{j} = -40 ^{\circ}\text{C}$	I _R	-	-	400	nA
Reverse breakdown voltage	I _R = 100 μA	V _{(BR)R}	2500	-	-	V
Reverse recovery time	l _F = 0.5 A, l _R = 1 A, i _R = 0.25 A	t _{rr}	-	-	5000	ns

TYPICAL CHARACTERISTICS (Tamb = 25 °C, unless otherwise specified)

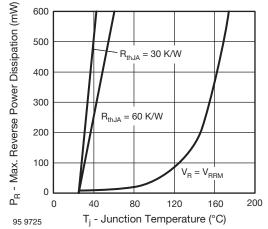


Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

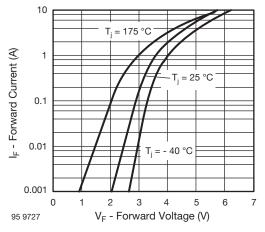


Fig. 3 - Max. Forward Current vs. Forward Voltage

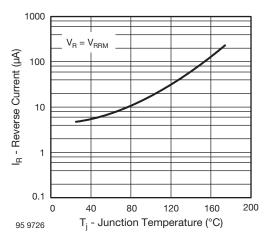


Fig. 2 - Max. Reverse Current vs. Junction Temperature

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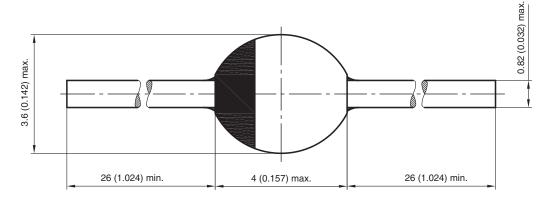
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PACKAGE DIMENSIONS in millimeters (inches): SOD-57



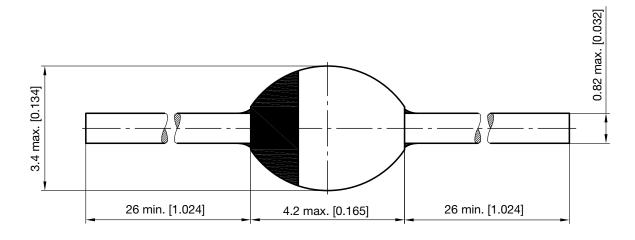
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SOD-57 BYT62-BY203

PACKAGE DIMENSIONS in millimeters (inches)



23194

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