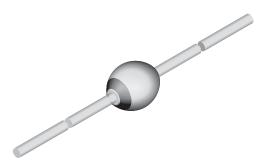


25 000

Standard Avalanche Sinterglass Diode



949539

FEATURES

- · Glass passivated junction
- · Hermetically sealed package

· High voltage rectification diode

- · Controlled avalanche characteristics
- Low reverse current

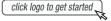
APPLICATIONS

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS **HALOGEN** FREE

DESIGN SUPPORT TOOLS



MECHANICAL DATA

Case: SOD-57

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

BYT62-TAP

method 2026

BYT62

Polarity: color band denotes cathode end

Mounting position: any Weight: approx. 369 mg

Troight approx. 555 mg						
ORDERING INFORMATION (Example)						
DEVICE NAME	ORDERING CODE	TAPED UNITS	MINIMUM ORDER QUANTITY			
BYT62	BYT62-TR	5000 per 10" tape and reel	25 000			

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

5000 per ammopack

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	Α		
Average forward current	R _{thJA} ≤ 60 K/W		I _{F(AV)}	0.350	Α		
Non repetitive reverse avalanche energy	I _{(BR)R} = 1 A, inductive load		E _R	60	mJ		
Junction temperature			T _j	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	



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

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

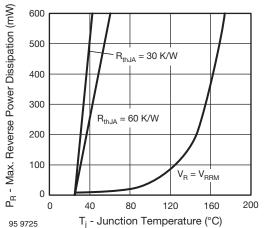


Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

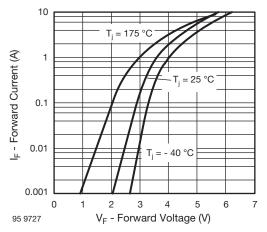


Fig. 3 - Max. Forward Current vs. Forward Voltage

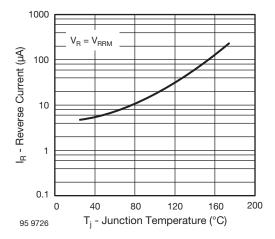
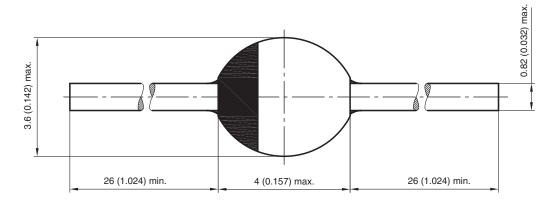


Fig. 2 - Max. Reverse Current vs. Junction Temperature

PACKAGE DIMENSIONS in millimeters (inches): SOD-57

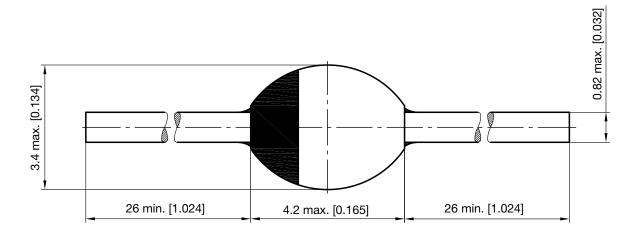


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SOD-57 BYT62-BY203

PACKAGE DIMENSIONS in millimeters (inches)



23194

Rev. 3 - Date: 09.February.2005 Document no.:6.563-5006.5-4



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