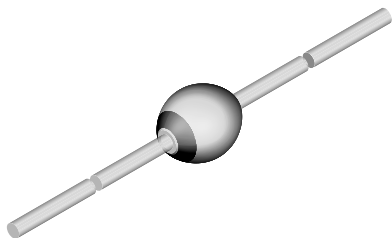


Standard Avalanche Sinterglass Diode



949539

FEATURES

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



RoHS
COMPLIANT
HALOGEN
FREE

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

APPLICATIONS

- High voltage rectification diode

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 ammpack	25 000

PARTS TABLE

PART	TYPE DIFFERENTIATION	PACKAGE
BYT62	$V_R = 2400\text{ V}$; $I_{F(AV)} = 350\text{ mA}$	SOD-57

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Reverse voltage = repetitive peak reverse voltage	See electrical characteristics	$V_R = V_{RRM}$	2400	V
Peak forward surge current	$t_p = 10\text{ ms}$, half sine wave	I_{FSM}	10	A
Average forward current	$R_{thJA} \leq 60\text{ K/W}$	$I_{F(AV)}$	350	mA
Non repetitive reverse avalanche energy	$I_{(BR)R} = 1\text{ A}$, inductive load	E_R	60	mJ
Junction temperature		T_j	175	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	- 55 to + 190	$^{\circ}\text{C}$

MAXIMUM THERMAL RESISTANCE ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Junction ambient	Lead length $l = 10\text{ mm}$, $T_L = \text{constant}$	R_{thJA}	60	K/W

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX	UNIT
Forward voltage	$I_F = 200\text{ mA}$	V_F	-	-	3	V
	$I_F = 1\text{ A}$	V_F	-	-	3.6	V
	$I_F = 1\text{ A}, T_j = 175\text{ }^{\circ}\text{C}$	V_F	-	-	2.9	V
	$I_F = 1\text{ A}, T_j = -40\text{ }^{\circ}\text{C}$	V_F	-	-	4	V
Reverse current	$V_R = V_{RRM}$	I_R	-	-	5	μA
	$V_R = V_{RRM}, T_j = 175\text{ }^{\circ}\text{C}$	I_R	-	-	250	μA
	$V_R = V_{RRM}, T_j = -40\text{ }^{\circ}\text{C}$	I_R	-	-	400	nA
Reverse breakdown voltage	$I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	2500	-	-	V
Reverse recovery time	$I_F = 0.5\text{ A}, I_R = 1\text{ A}, i_R = 0.25\text{ A}$	t_{rr}	-	-	5	μs

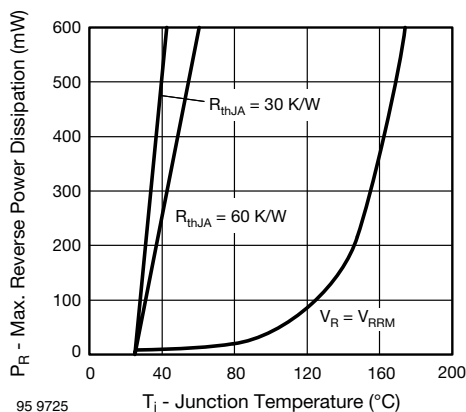
TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)


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

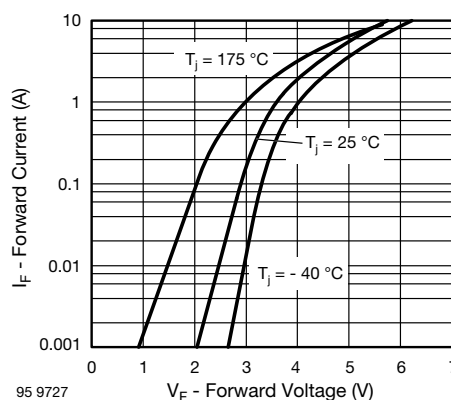


Fig. 3 - Max. Forward Current vs. Forward Voltage

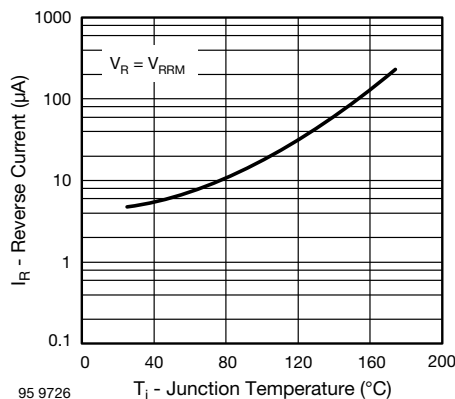
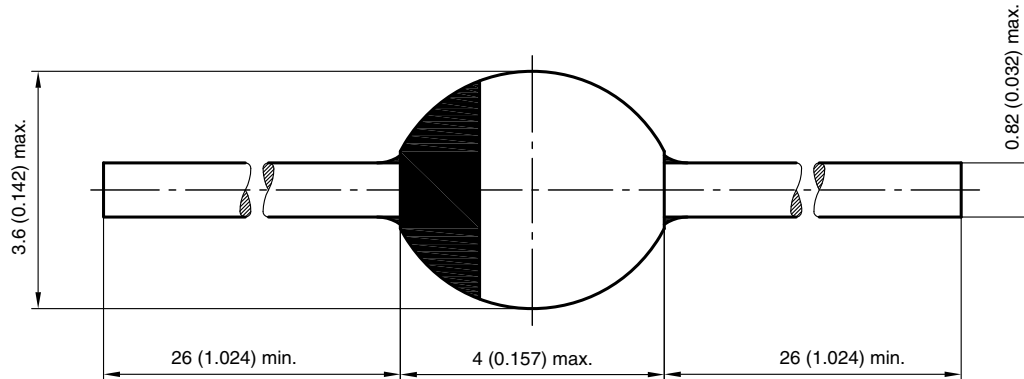


Fig. 2 - Max. Reverse Current vs. Junction Temperature

PACKAGE DIMENSIONS in millimeters (inches): **SOD-57**


20543
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