



Ultra-Fast Avalanche Sinterglass Diode



949539

FEATURES

- Glass passivated junction
• Hermetically sealed package
• Very low switching losses
• Low reverse current
• High reverse voltage
• 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

- Switched mode power supplies
• High-frequency inverter circuits

勝特力材料 886-3-5773766
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

ORDERING INFORMATION (Example)

Table with 4 columns: DEVICE NAME, ORDERING CODE, TAPED UNITS, MINIMUM ORDER QUANTITY. Rows for BYV26E (TR and TAP).

PARTS TABLE

Table with 3 columns: PART, TYPE DIFFERENTIATION, PACKAGE. Rows for BYV26A through BYV26E.

ABSOLUTE MAXIMUM RATINGS (T\_amb = 25 °C, unless otherwise specified)

Table with 6 columns: PARAMETER, TEST CONDITION, PART, SYMBOL, VALUE, UNIT. Rows for Reverse voltage, Peak forward surge current, Average forward current, Non repetitive reverse avalanche energy, Junction and storage temperature range.

MAXIMUM THERMAL RESISTANCE (T\_amb = 25 °C, unless otherwise specified)

Table with 5 columns: PARAMETER, TEST CONDITION, SYMBOL, VALUE, UNIT. Row for Junction ambient.



<b>ELECTRICAL CHARACTERISTICS</b> ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 1\text{ A}$		$V_F$	-	-	2.5	V
	$I_F = 1\text{ A}, T_j = 175\text{ }^{\circ}\text{C}$		$V_F$	-	-	1.3	V
Reverse current	$V_R = V_{RRM}$		$I_R$	-	-	5	$\mu\text{A}$
	$V_R = V_{RRM}, T_j = 150\text{ }^{\circ}\text{C}$		$I_R$	-	-	100	$\mu\text{A}$
Reverse breakdown voltage	$I_R = 100\text{ }\mu\text{A}$	BYV26A	$V_{(BR)R}$	300	-	-	V
		BYV26B	$V_{(BR)R}$	500	-	-	V
		BYV26C	$V_{(BR)R}$	700	-	-	V
		BYV26D	$V_{(BR)R}$	900	-	-	V
		BYV26E	$V_{(BR)R}$	1100	-	-	V
Reverse recovery time	$I_F = 0.5\text{ A}, I_R = 1\text{ A}, I_R = 0.25\text{ A}$	BYV26A	$t_{rr}$	-	-	30	ns
		BYV26B	$t_{rr}$	-	-	30	ns
		BYV26C	$t_{rr}$	-	-	30	ns
		BYV26D	$t_{rr}$	-	-	75	ns
		BYV26E	$t_{rr}$	-	-	75	ns

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

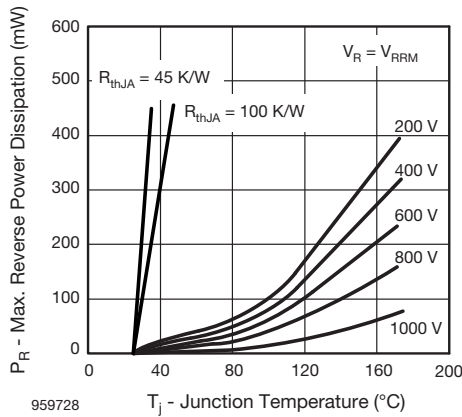


Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

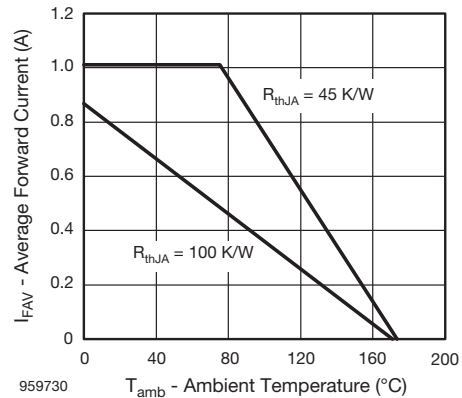


Fig. 3 - Max. Average Forward Current vs. Ambient Temperature

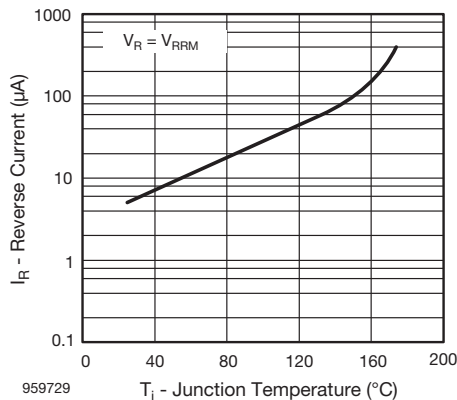


Fig. 2 - Max. Reverse Current vs. Junction Temperature

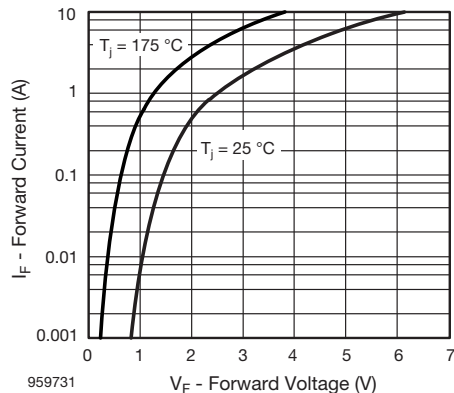


Fig. 4 - Max. Forward Current vs. Junction Temperature

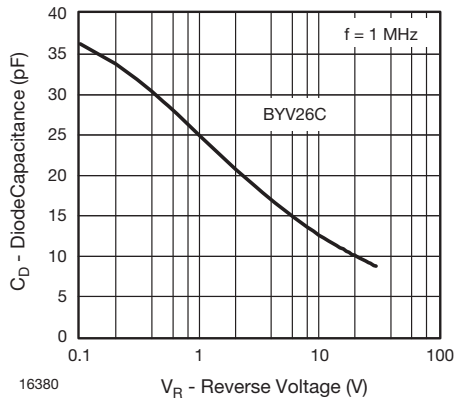


Fig. 5 - Diode Capacitance vs. Reverse Voltage

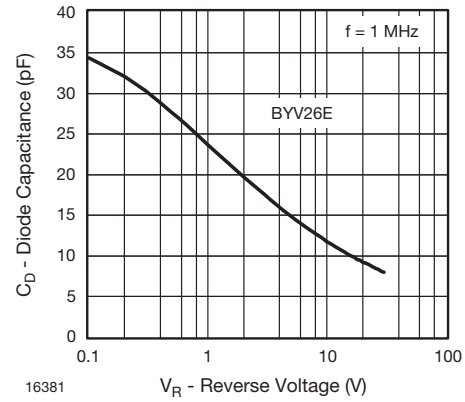
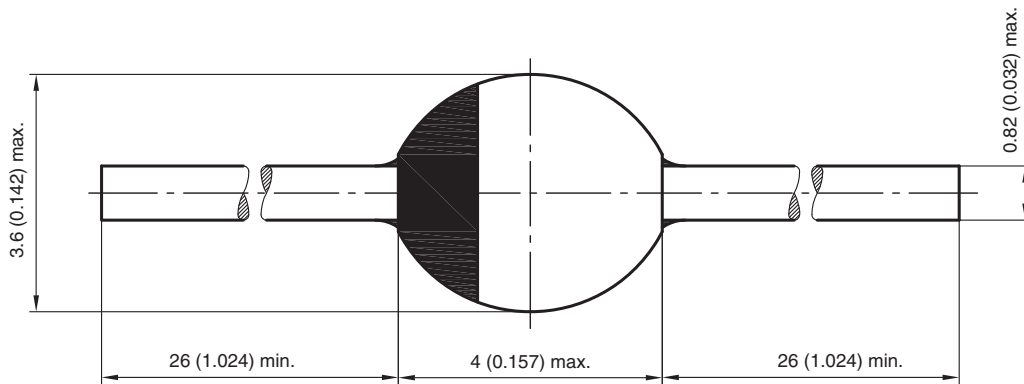


Fig. 6 - Diode Capacitance vs. Reverse Voltage

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



20543  
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