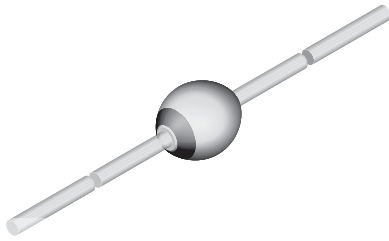




Ultra-Fast Avalanche Sinterglass Diode



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

Table with 4 columns: DEVICE NAME, ORDERING CODE, TAPED UNITS, MINIMUM ORDER QUANTITY. Includes rows for BYV26E in TR and TAP packages.

Table with 3 columns: PART, TYPE DIFFERENTIATION, PACKAGE. Lists diode models BYV26A through BYV26E with their respective reverse voltages and packages.

Table with 6 columns: PARAMETER, TEST CONDITION, PART, SYMBOL, VALUE, UNIT. Lists absolute maximum ratings for reverse voltage, surge current, average current, avalanche energy, and temperature range.

Table with 5 columns: PARAMETER, TEST CONDITION, SYMBOL, VALUE, UNIT. Lists maximum thermal resistance for junction ambient.



ELECTRICAL CHARACTERISTICS (T <sub>amb</sub> = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I <sub>F</sub> = 1 A		V <sub>F</sub>	-	-	2.5	V
	I <sub>F</sub> = 1 A, T <sub>j</sub> = 175 °C		V <sub>F</sub>	-	-	1.3	V
Reverse current	V <sub>R</sub> = V <sub>RRM</sub>		I <sub>R</sub>	-	-	5	μA
	V <sub>R</sub> = V <sub>RRM</sub> , T <sub>j</sub> = 150 °C		I <sub>R</sub>	-	-	100	μA
Reverse breakdown voltage	I <sub>R</sub> = 100 μA	BYV26A	V <sub>(BR)R</sub>	300	-	-	V
		BYV26B	V <sub>(BR)R</sub>	500	-	-	V
		BYV26C	V <sub>(BR)R</sub>	700	-	-	V
		BYV26D	V <sub>(BR)R</sub>	900	-	-	V
		BYV26E	V <sub>(BR)R</sub>	1100	-	-	V
Reverse recovery time	I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1 A, i <sub>R</sub> = 0.25 A	BYV26A	t <sub>rr</sub>	-	-	30	ns
		BYV26B	t <sub>rr</sub>	-	-	30	ns
		BYV26C	t <sub>rr</sub>	-	-	30	ns
		BYV26D	t <sub>rr</sub>	-	-	75	ns
		BYV26E	t <sub>rr</sub>	-	-	75	ns

TYPICAL CHARACTERISTICS (T<sub>amb</sub> = 25 °C, unless otherwise specified)

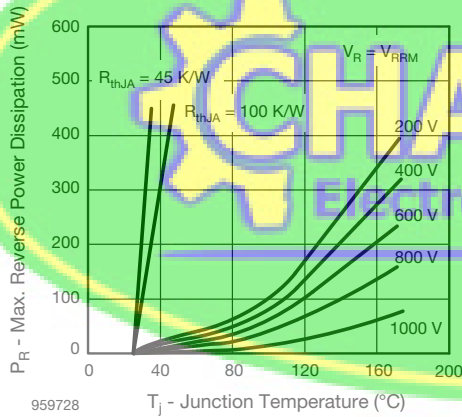


Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

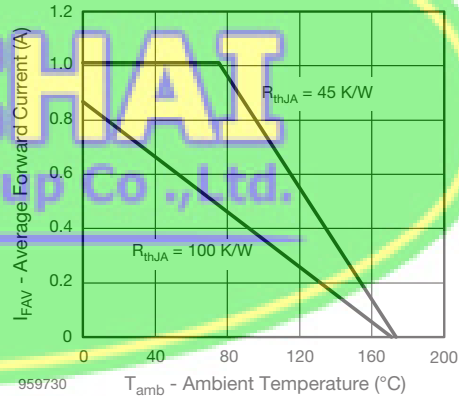


Fig. 3 - Max. Average Forward Current vs. Ambient Temperature

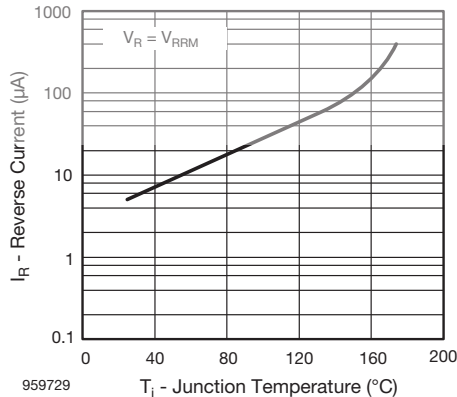


Fig. 2 - Max. Reverse Current vs. Junction Temperature

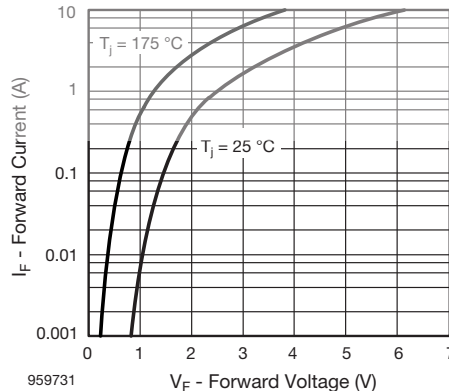


Fig. 4 - Max. Forward Current vs. Junction Temperature

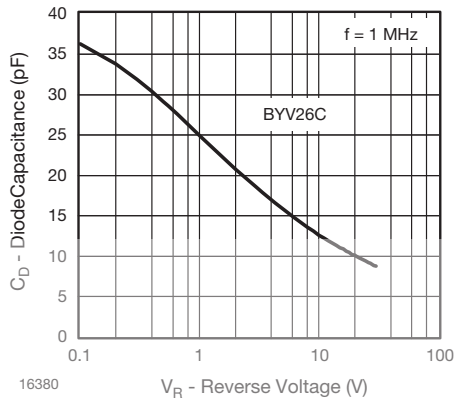


Fig. 5 - Diode Capacitance vs. Reverse Voltage

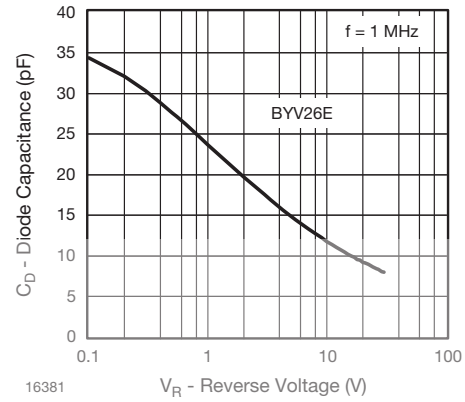
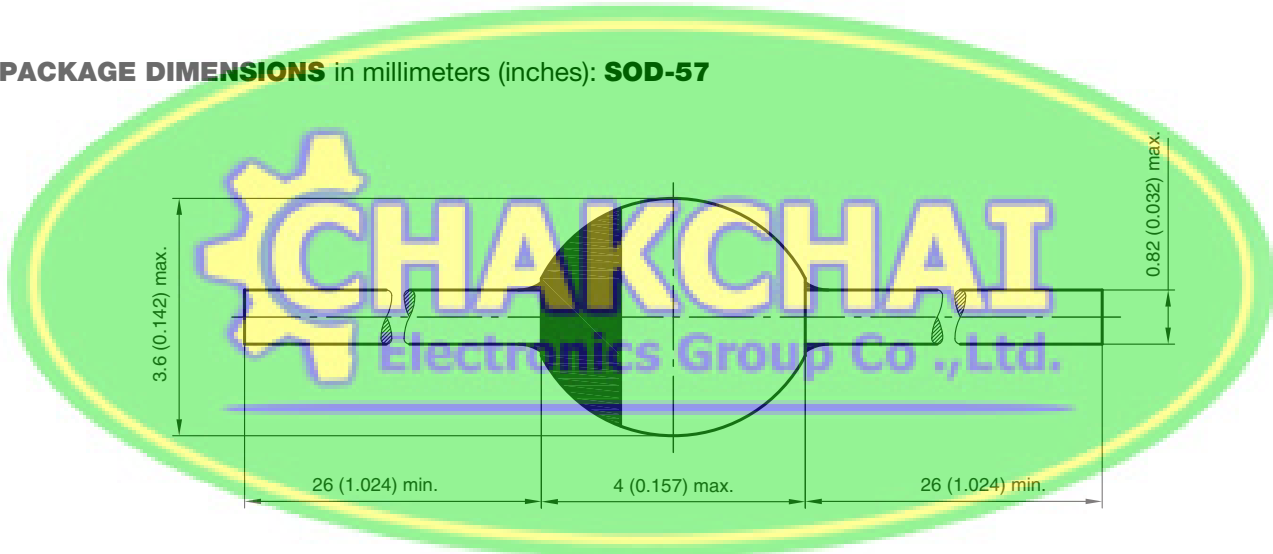


Fig. 6 - Diode Capacitance vs. Reverse Voltage

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



20543  
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