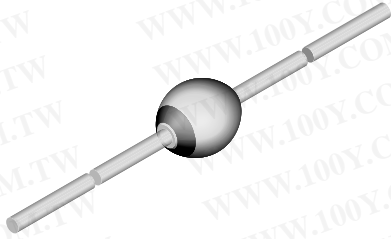




Ultra Fast Avalanche Sinterglass Diode

勝特力材料 886-3-5753170
 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



949539

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

FEATURES

- Glass passivated junction
- Hermetically sealed package
- Very low switching losses
- Low reverse current
- High reverse voltage
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



RoHS
 COMPLIANT
 HALOGEN
FREE

APPLICATIONS

- Switched mode power supplies
- High-frequency inverter circuits

PARTS TABLE		
PART	TYPE DIFFERENTIATION	PACKAGE
BYV26A	$V_R = 200\text{ V}; I_{FAV} = 1\text{ A}$	SOD-57
BYV26B	$V_R = 400\text{ V}; I_{FAV} = 1\text{ A}$	SOD-57
BYV26C	$V_R = 600\text{ V}; I_{FAV} = 1\text{ A}$	SOD-57
BYV26D	$V_R = 800\text{ V}; I_{FAV} = 1\text{ A}$	SOD-57
BYV26E	$V_R = 1000\text{ V}; I_{FAV} = 1\text{ A}$	SOD-57

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25\text{ }^\circ\text{C}$, unless otherwise specified)					
PARAMETER	TEST CONDITION	PART	SYMBOL	VALUE	UNIT
Reverse voltage = repetitive peak reverse voltage	See electrical characteristics	BYV26A	$V_R = V_{RRM}$	200	V
		BYV26B	$V_R = V_{RRM}$	400	V
		BYV26C	$V_R = V_{RRM}$	600	V
		BYV26D	$V_R = V_{RRM}$	800	V
		BYV26E	$V_R = V_{RRM}$	1000	V
Peak forward surge current	$t_p = 10\text{ ms}$, half sine wave		I_{FSM}	30	A
Average forward current			I_{FAV}	1	A
Non repetitive reverse avalanche energy	$I_{(BR)R} = 1\text{ A}$, inductive load		E_R	10	mJ
Junction and storage temperature range			$T_j = T_{stg}$	- 55 to + 175	$^\circ\text{C}$

MAXIMUM THERMAL RESISTANCE ($T_{amb} = 25\text{ }^\circ\text{C}$, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Junction ambient	$l = 10\text{ mm}$, $T_L = \text{constant}$	R_{thJA}	45	K/W

BYV26A, BYV26B, BYV26C, BYV26D, BYV26E



Vishay Semiconductors Ultra Fast Avalanche Sinterglass Diode

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, 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	μA
	$V_R = V_{RRM}, T_j = 150\text{ }^{\circ}\text{C}$		I_R	-	-	100	μA
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)

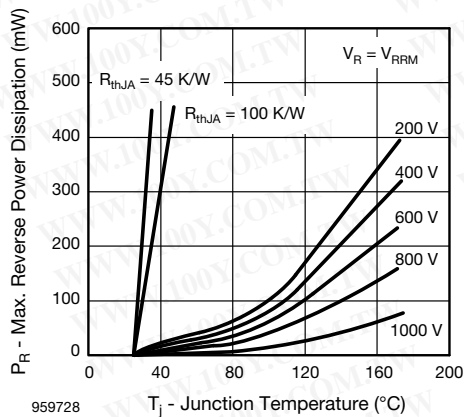


Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

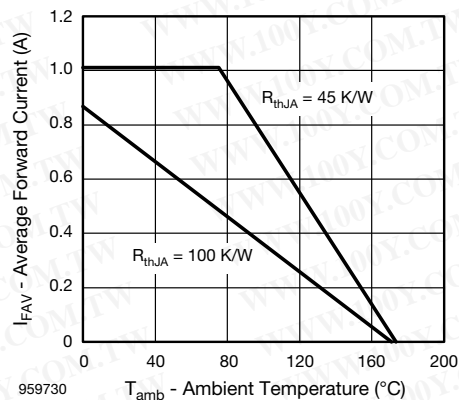


Fig. 3 - Max. Average Forward Current vs. Ambient Temperature

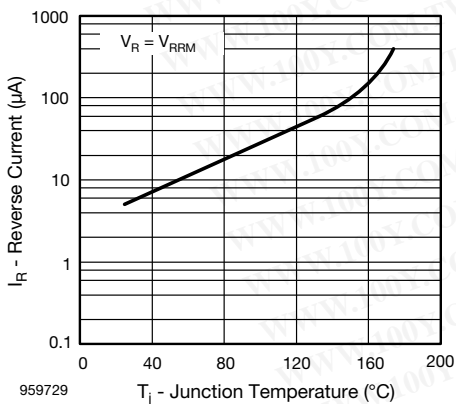


Fig. 2 - Max. Reverse Current vs. Junction Temperature

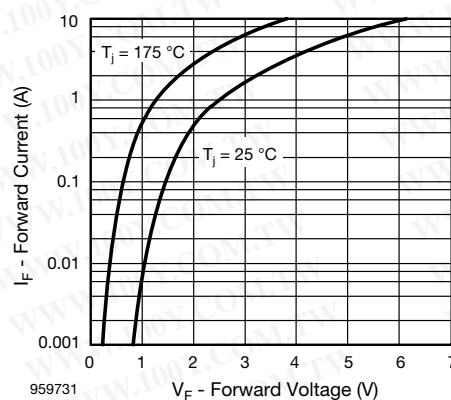


Fig. 4 - Max. Forward Current vs. Junction Temperature



BYV26A, BYV26B, BYV26C, BYV26D, BYV26E

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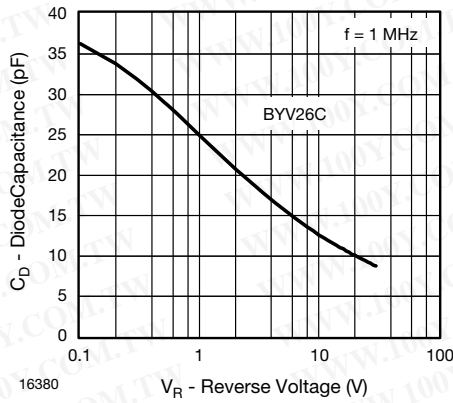


Fig. 5 - Diode Capacitance vs. Reverse Voltage

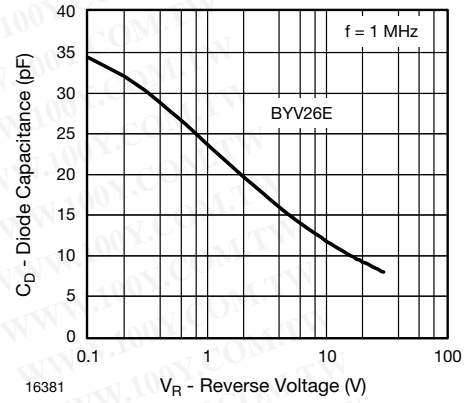
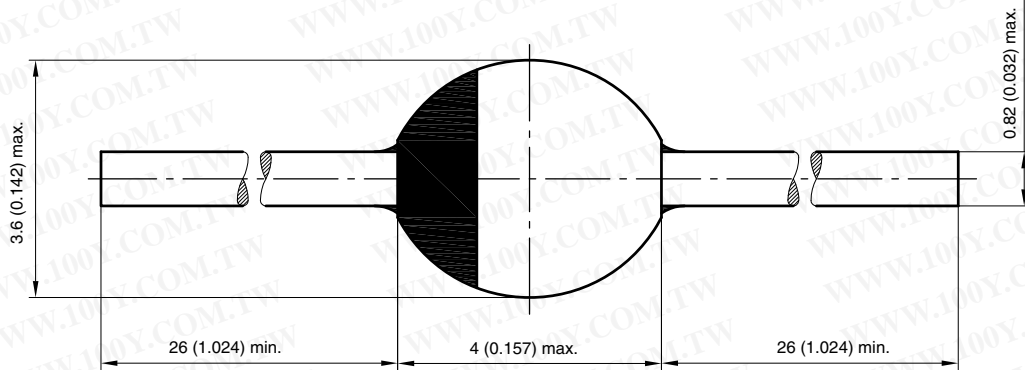


Fig. 6 - Diode Capacitance vs. Reverse Voltage

PACKAGE DIMENSIONS in millimeters (inches): SOD-57



20543
Rev. 3 - Date: 09.February 2005
Document no.:6.563-5006.3-4



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