New Jersey Semi-Conductor Products, Inc.

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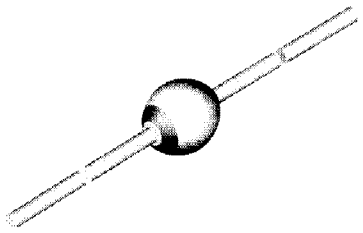
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BY268.BY269

Fast Avalanche Sinterglass Diode

Features

- Glass passivated junction
- Hermetically sealed package



Applications

High voltage fast rectification diode

Mechanical Data

Case: Sintered glass case, SOD 57

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 370 mg, (max. 500 mg)

Parts Table

Part	Type differentiation	Package
BY268	V_R = 1400 V; I_{FAV} = 0.8 A	SOD57
BY269	V_R = 1600 V; I_{FAV} = 0.8 A	SOD57

Absolute Maximum Ratings

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Sub type	Symbol	Value	Unit
Peak reverse voltage, non repetitive		BY268	V_{RSM}	1600	V
		BY269	V_{RSM}	1800	V
Reverse voltage	see electrical characteristics	BY268	V_R	1400	V
	see electrical characteristics	BY269	V_R	1600	V
Peak forward surge current	t_p = 10 ms, half sinewave		I_{FSM}	20	A
Average forward current			I_{FAV}	0.8	A
Junction and storage temperature range			$T_j = T_{stg}$	- 55 to + 175	°C
Non repetitive reverse avalanche energy	$I_{(BR)R}$ = 0.4 A		E_R	10	mJ

Maximum Thermal Resistance

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Sub type	Symbol	Value	Unit
Junction ambient	on PC board with spacing 25 mm		R_{thJA}	100	K/W
	L = 10 mm, T_L = constant		R_{thJA}	45	K/W

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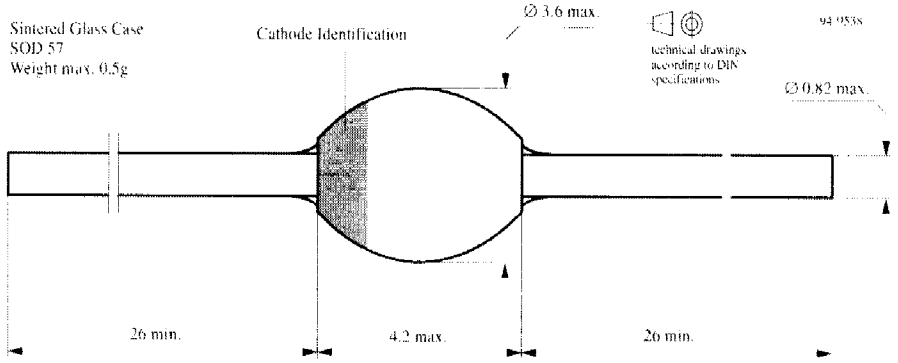
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Electrical Characteristics

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Sub type	Symbol	Min	Typ.	Max	Unit
Forward voltage	I_F = 0.4 A		V_F			1.25	V
Reverse current	V_R = 1400 V	BY268	I_R		1	2	µA
	V_R = 1600 V	BY269	I_R		1	2	µA
	V_R = 1400 V, T_j = 100 °C	BY268	I_R			15	µA
	V_R = 1600 V, T_j = 100 °C	BY269	I_R			15	µA
Reverse recovery time	I_F = 0.5 A, I_R = 1 A, i_R = 0.25 A		t_{rr}			400	ns

Package Dimensions in mm



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