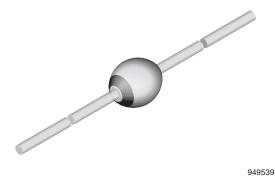
Vishay Semiconductors





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FEATURES

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

APPLICATIONS

• High voltage fast rectification diode



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

ORDERING INFORMATION (Example)						
DEVICE NAME	E NAME ORDERING CODE TAPED UNITS MINIMUM ORDER					
BY269	BY269TR	5000 per 10" tape and reel	25 000			
BY269	BY269TAP	5000 per ammopack	25 000			

PARTS TABLE					
PART	TYPE DIFFERENTIATION	PACKAGE			
BY268	V _R = 1400 V; I _{F(AV)} = 0.8 A	SOD-57			
BY269	V _R = 1600 V; I _{F(AV)} = 0.8 A	SOD-57			

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	PART	SYMBOL	VALUE	UNIT	
Deale reverse veltage, per repetitive		BY268	V _{RSM}	1600	V	
Peak reverse voltage, non repetitive		BY269	V _{RSM}	1800	V	
Powerze veltage	See electrical characteristics	BY268	V _R	1400	V	
Reverse voltage		BY269	V _R	1600	V	
Peak forward surge current	t _p = 10 ms, half sine wave		I _{FSM}	20	А	
Average forward current			I _{F(AV)}	0.8	А	
Non repetitive reverse avalanche energy	$I_{(BR)R} = 0.4 A$		E _R	10	mJ	
Junction and storage temperature range			$T_j = T_{stg}$	- 55 to + 175	°C	

MAXIMUM THERMAL RESISTANCE (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Junction ambient	Lead length I = 10 mm, T_L = constant	R _{thJA}	45	K/W	
	On PC board with spacing 25 mm	R _{thJA}	100	K/W	

Rev. 1.8, 12-Sep-12

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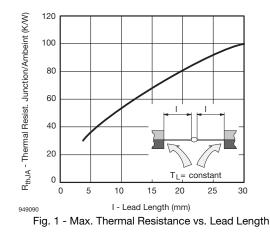
BY268, BY269



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ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I _F = 0.4 A		V _F	-	-	1.25	V
	V _R = 1400 V	BY268	I _R	-	1	2	μA
Reverse current	V _R = 1600 V	BY269	I _R	-	1	2	μA
Reverse current	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	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A}, i_R = 0.25 \text{ A}$		t _{rr}	-	-	400	ns

TYPICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)



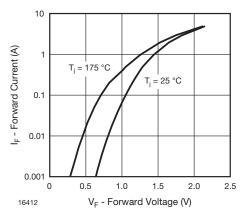


Fig. 2 - Max. Forward Current vs. Forward Voltage

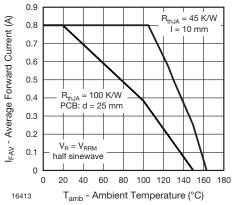


Fig. 3 - Max. Average Forward Current vs. Ambient Temperature

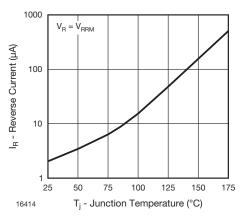


Fig. 4 - Max. Reverse Current vs. Junction Temperature

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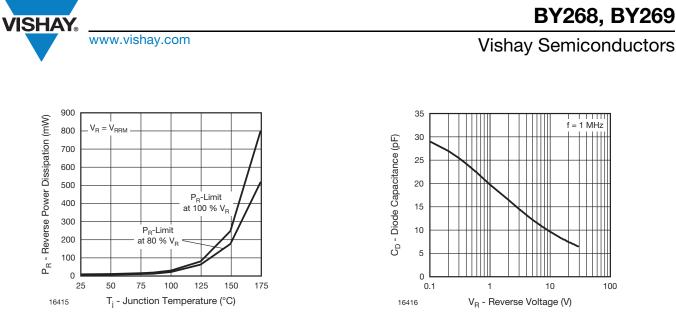
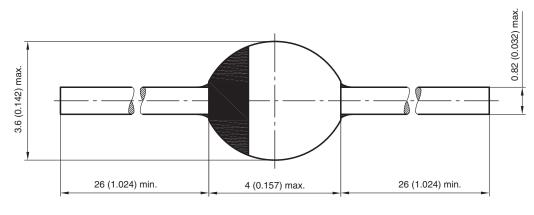


Fig. 5 - Max. Reverse Power Dissipation vs. Junction Temperature



PACKAGE DIMENSIONS in millimeters (inches): SOD-57



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