

# 350 mW SOD27 Hermetically Sealed Glass Fast Switching Diodes

## Absolute Maximum Ratings T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
P <sub>D</sub>	Power Dissipation	350	mW	
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	75	V	
V <sub>R</sub>	Continuous Reverse Voltage	75	V	
I <sub>F</sub>	Continuous Forward Current(see Fig. 2)	250	mA	
I <sub>FRM</sub>	Repetitive Peak Forward Current	450	mA	
T <sub>STG</sub>	Storage Temperature Range	-65 to +200	°C	
T <sub>J</sub>	Operating Junction Temperature	+200	°C	
I <sub>FSM</sub>	Non-Repetitive Peak Forward Current	4	A	
	Pulse Width : 1.0 μs			1
	(see Fig.4) 1.0 ms			0.5

Device mounted on an FR4 printed-circuit board; lead length 10 mm

### Specification Features:

- § Fast Switching Device (T<sub>RR</sub> < 4.0 nS)
- § SOD27(DO-35) Package
- § Through-Hole Device Type Mounting
- § Hermetically Sealed Glass
- § Compression Bonded Construction
- § All External Surfaces Are Corrosion Resistant And Leads Are Readily Solderable
- § RoHS Compliant and Halogen Free
- § Solder Hot Dip Tin (Sn) Terminal Finish
- § Cathode Indicated By Polarity Band

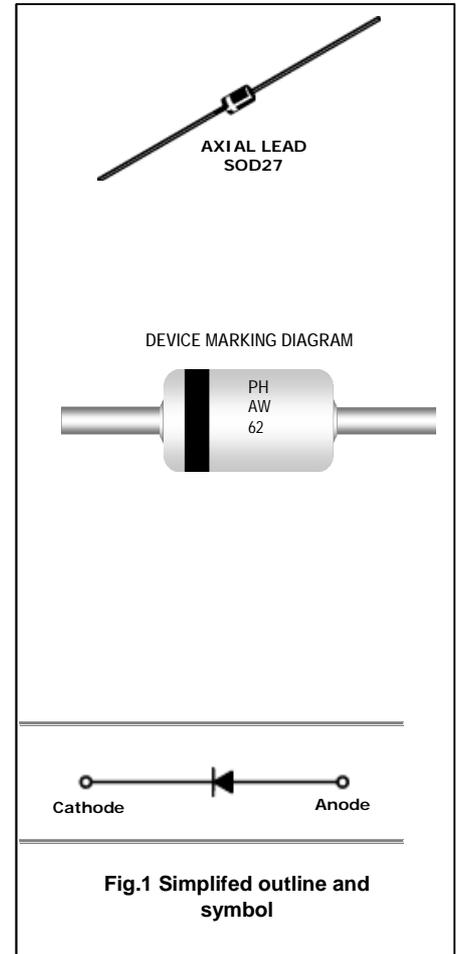
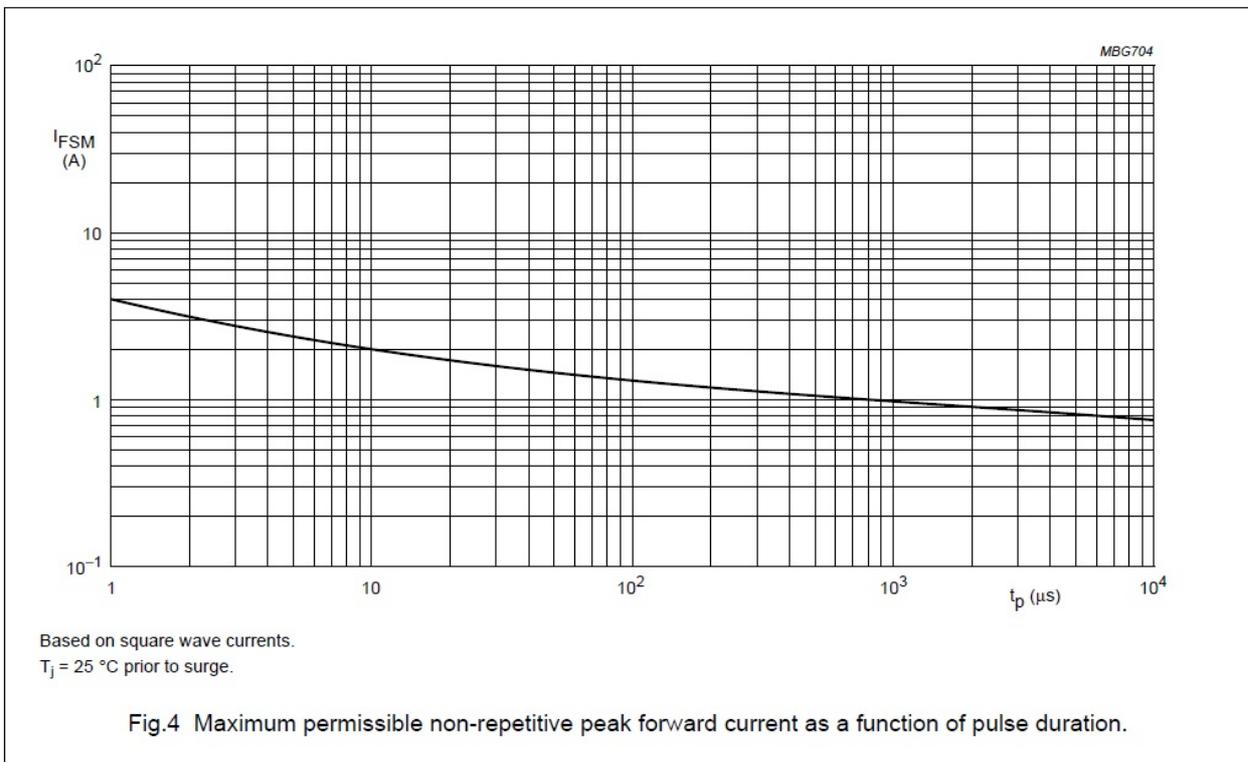
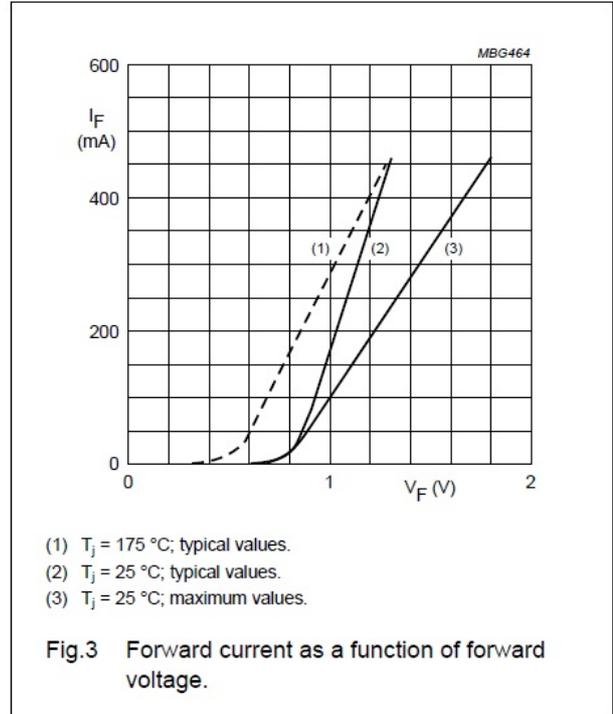
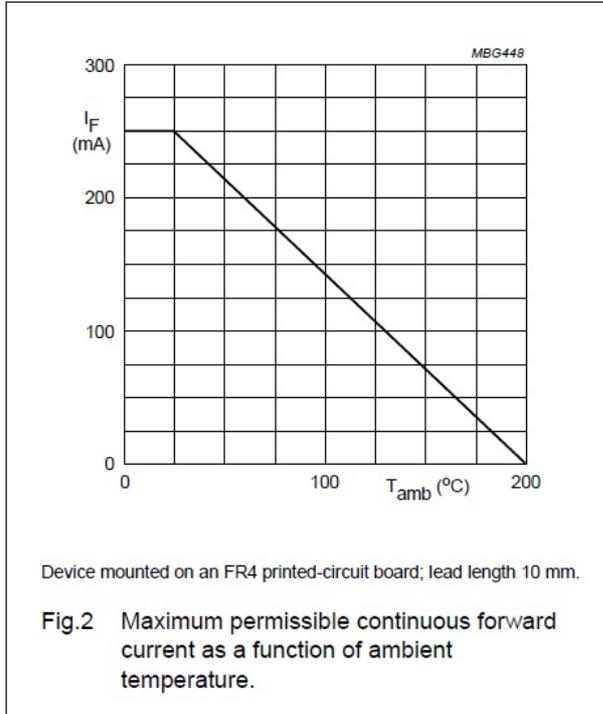


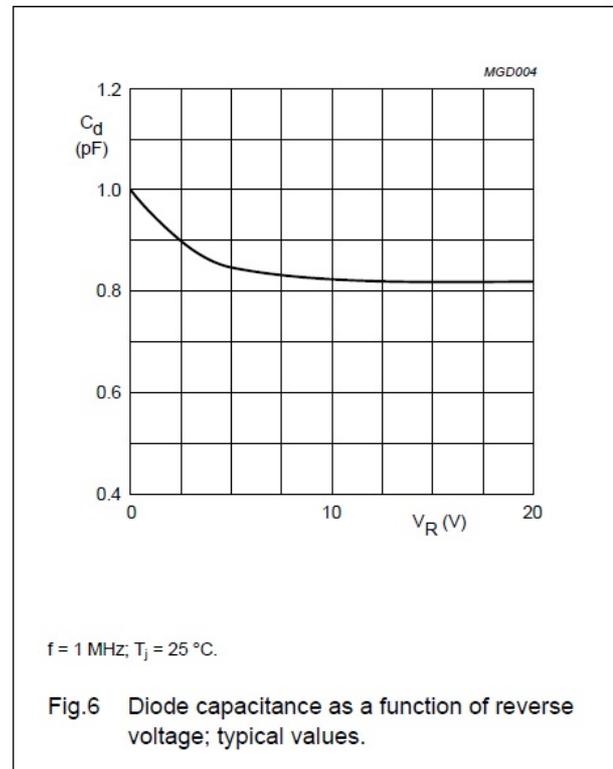
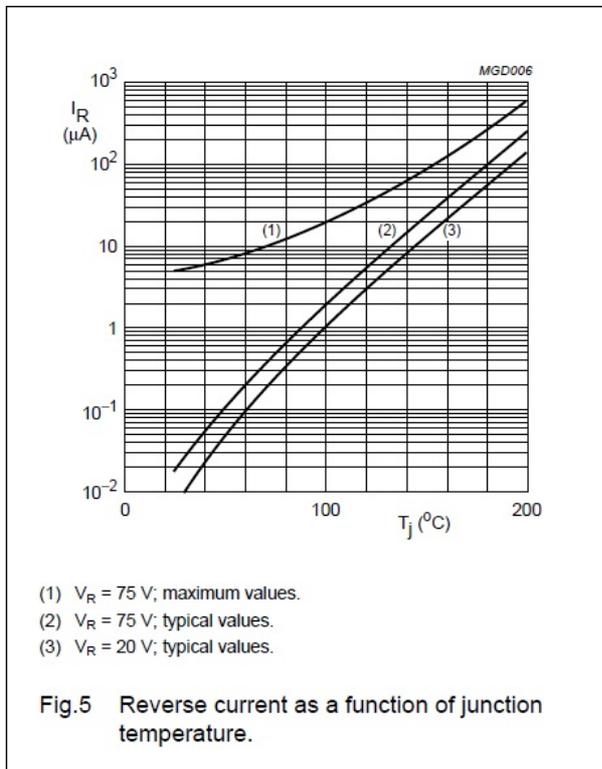
Fig.1 Simplified outline and symbol

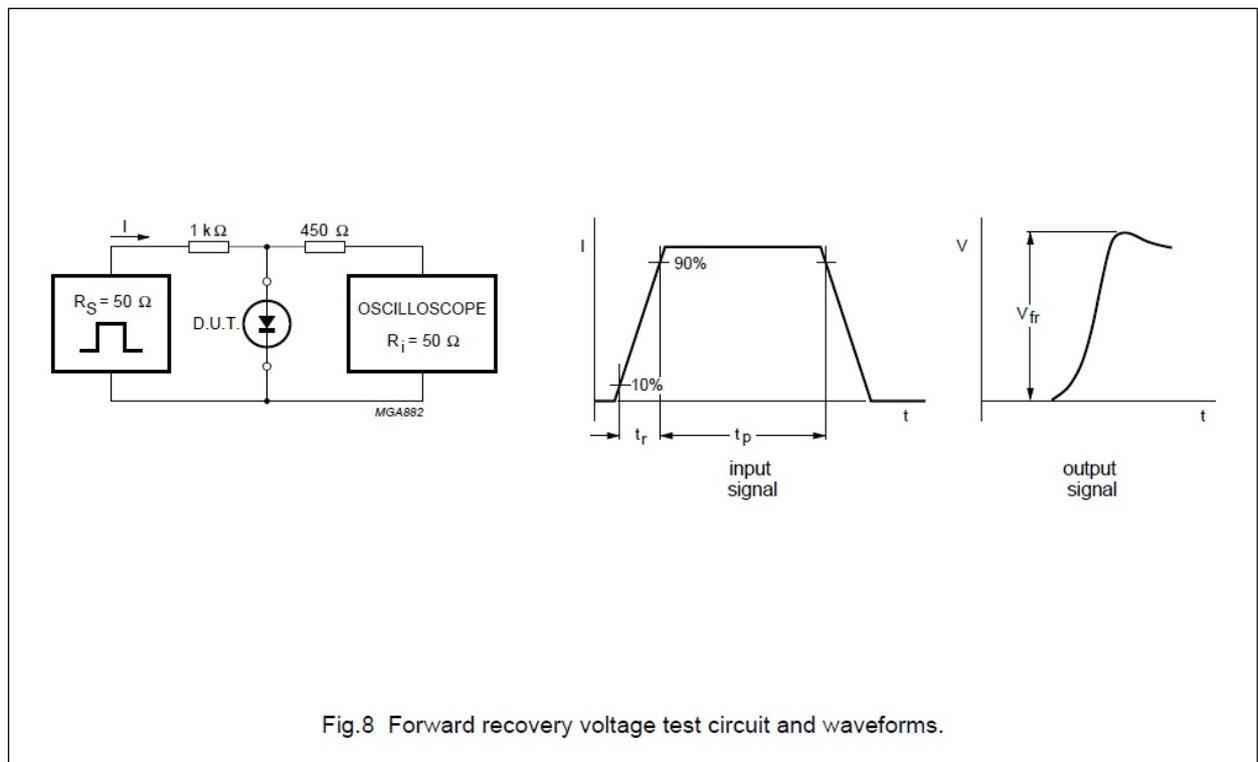
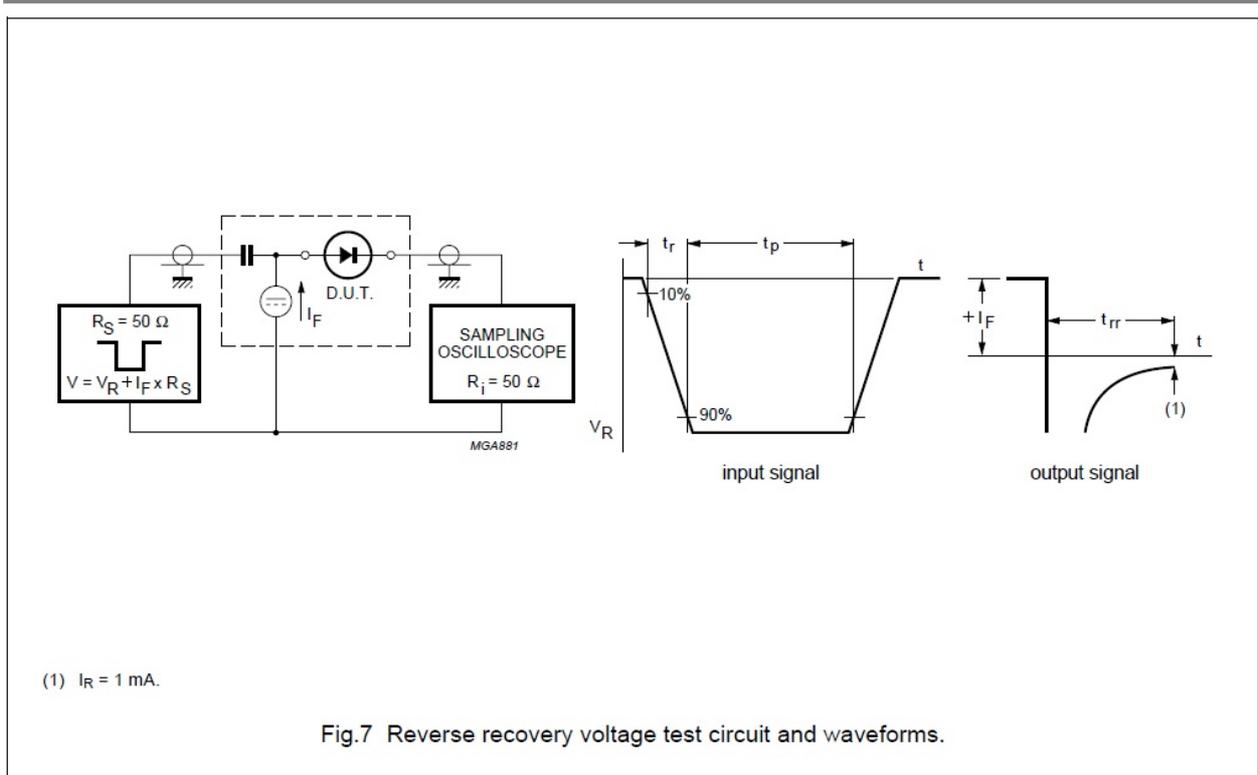
## Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
V <sub>F</sub>	Forward Voltage (see Fig.3)	I <sub>F</sub> =5mA I <sub>F</sub> =100mA I <sub>F</sub> =100mA, T <sub>j</sub> =100°C	0.62	0.75 1.0 0.93	V
I <sub>R</sub>	Reverse Current (see Fig.5)	V <sub>R</sub> =20V V <sub>R</sub> =50V V <sub>R</sub> =75V V <sub>R</sub> =20V, T <sub>j</sub> =150°C V <sub>R</sub> =75V, T <sub>j</sub> =150°C		25 200 5 50 100	nA nA μA uA uA
C	Capacitance (see Fig.6)	V <sub>R</sub> =0V, f=1MHz		2	pF
T <sub>RR</sub>	Reverse Recovery Time (see Fig.7)	when switched from I <sub>F</sub> =10mA to I <sub>R</sub> =10mA; R <sub>L</sub> =100Ω measured at I <sub>R</sub> =1mA		4	ns
V <sub>fr</sub>	Forward Recovery Voltage(see Fig.8)	when switched from I <sub>F</sub> =50mA, T <sub>F</sub> =20ns		2.5	V
R <sub>th(j-tp)</sub>	Thermal Resistance Form Junction To Tie-Point	Lead Length 10mm		240	K/W
R <sub>th(j-a)</sub>	Thermal Resistance Form Junction To Ambient	Lead Length 10mm		500	K/W

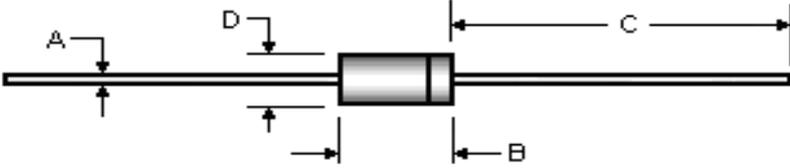
**Typical Characteristics**







**Package Outline**

Package	Case Outline			
DO-35				
DO-35	<b>SOD27(DO-35)</b>			
<b>DIM</b>	<b>Millimeters</b>		<b>Inches</b>	
	Min	Max	Min	Max
<b>A</b>	0.46	0.56	0.018	0.022
<b>B</b>	3.05	4.25	0.120	0.167
<b>C</b>	25.40	38.10	1.000	1.500
<b>D</b>	1.53	1.85	0.060	0.073

**Notes:**

1. All dimensions are within JEDEC standard.
2. DO35 polarity denoted by cathode band.

## NOTICE

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