

1.0A MINIATURE SILICON RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

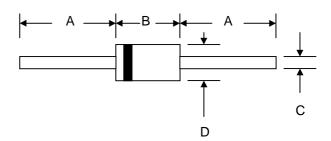
Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.181 grams (approx.)

Mounting Position: AnyMarking: Type Number



R-1					
Dim	Min	Max			
Α	20.0	_			
В	2.00	3.50			
С	0.53	0.64			
D	2.20	2.60			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	1A1	1A2	1A3	1A4	1A5	1A6	1A7	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 75°C	lo	1.0				Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	30				А			
Forward Voltage @I _F = 1.0A	VFM	1.0				V			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IRM	5.0 50					μΑ		
Typical Junction Capacitance (Note 2)	Cj	15				pF			
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}$ JA	50				K/W			
Operating Temperature Range	Tj	-65 to +125			°C				
Storage Temperature Range	Тѕтс	-65 to +150			°C				

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

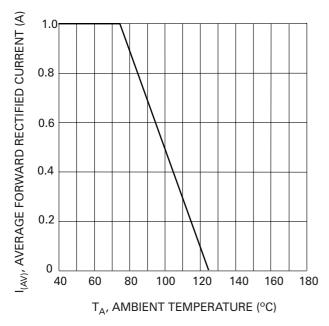
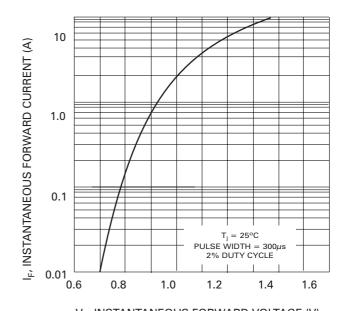


Fig. 1 Forward Current Derating Curve



 ${\sf V_{\sf F}}$, INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 2 Typical Forward Characteristics

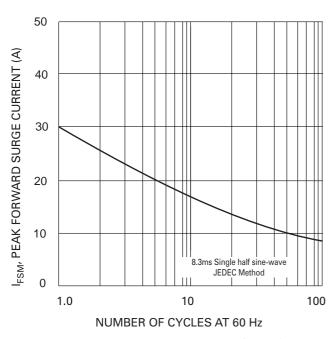


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

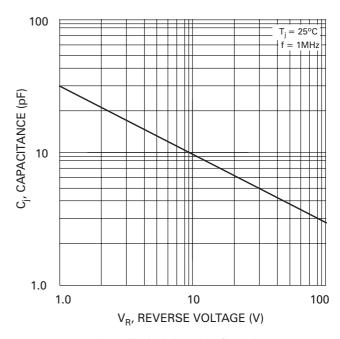


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
1A1-T3	R-1	5000/Tape & Reel			
1A1-TB	R-1	5000/Tape & Box			
1A1	R-1	1000 Units/Box			
1A2-T3	R-1	5000/Tape & Reel			
1A2-TB	R-1	5000/Tape & Box			
1A2	R-1	1000 Units/Box			
1A3-T3	R-1	5000/Tape & Reel			
1A3-TB	R-1	5000/Tape & Box			
1A3	R-1	1000 Units/Box			
1A4-T3	R-1	5000/Tape & Reel			
1A4-TB	R-1	5000/Tape & Box			
1A4	R-1	1000 Units/Box			
1A5-T3	R-1	5000/Tape & Reel			
1A5-TB	R-1	5000/Tape & Box			
1A5	R-1	1000 Units/Box			
1A6-T3	R-1	5000/Tape & Reel			
1A6-TB	R-1	5000/Tape & Box			
1A6	R-1	1000 Units/Box			
1A7-T3	R-1	5000/Tape & Reel			
1A7-TB	R-1	5000/Tape & Box			
1A7	R-1	1000 Units/Box			

Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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