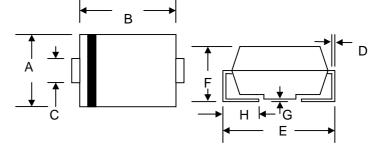


1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

SMA/DO-214AC					
Dim	Min	Max			
Α	2.50	2.90			
в	4.00	4.60			
С	1.40	1.60			
D	0.152	0.305			
E	4.80	5.28			
F	2.00	2.44			
G	0.051	0.203			
Н	0.76	1.52			
All Dimensions in mm					

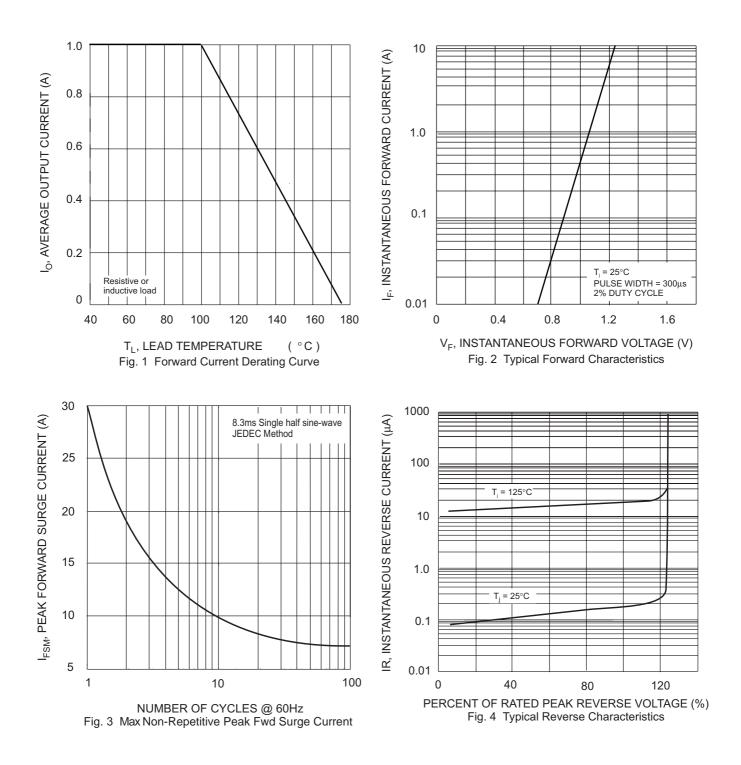
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	M1	M2	M3	M4	M5	M6	M7	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 $@T_L = 100^{\circ}C$	ю	1.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30				A			
Forward Voltage $@I_F = 1.0A$	Vfm	1.10				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	5.0 200					μA		
Reverse Recovery Time (Note 1)	trr				2.5				μS
Typical Junction Capacitance (Note 2)	Cj				15				pF
Typical Thermal Resistance (Note 3)	R∂JL				30				K/W
Operating and Storage Temperature Range	Тj, Tsтg			-	65 to +17	5			°C

Note: 1. Measured with I_{F} = 0.5A, I_{R} = 1.0A, I_{rr} = 0.25A,

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 8.0mm² land area.

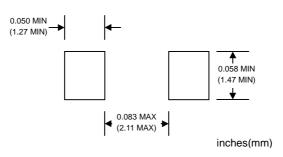


Product No.+	Package Type	Shipping Quantity
M1-T1	SMA	1800/Tape & Reel
M1-T3	SMA	5000/Tape & Reel
M2-T1	SMA	1800/Tape & Reel
M2-T3	SMA	5000/Tape & Reel
M3-T1	SMA	1800/Tape & Reel
М3-Т3	SMA	5000/Tape & Reel
M4-T1	SMA	1800/Tape & Reel
M4-T3	SMA	5000/Tape & Reel
M5-T1	SMA	1800/Tape & Reel
M5-T3	SMA	5000/Tape & Reel
M6-T1	SMA	1800/Tape & Reel
M6-T3	SMA	5000/Tape & Reel
M7-T1	SMA	1800/Tape & Reel
M7-T3	SMA	5000/Tape & Reel

ORDERING INFORMATION

Products listed in **bold** are WTE **Preferred** devices. *T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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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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