SEMICONDUCTOR

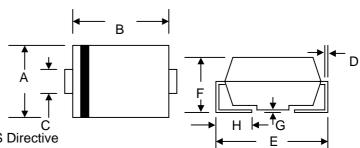
1.0A SURFACE MOUNT SUPER FAST RECTIFIER

Data Sheet 4801, Rev.—

Green Products

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- Green Products in Compliance with the RoHS Directive



Mechanical Data

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)

SMB/DO-214AA										
Dim	Min	Max	Min	Max						
Α	3.30	3.94	0.130	0.155						
В	4.06	4.70	0.160	0.185						
С	1.91	2.11	0.075	0.083						
D	0.152	0.305	0.006	0.012						
Е	5.08	5.59	0.2	0.220						
F	2.13	2.44	0.084	0.096						
G	0.051	0.203	0.002	0.008						
Н	0.76	1.27	0.029	0.05						
	in ı	mm	ln i	nch						

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

Characteristic		Symbol	ER1A-G	ER1B-G	ER1C-G	ER1D-G	ER1E-G	ER1G-G	ER1J-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	150	200	300	400	600	>
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	420	٧
Average Rectified Output Current	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	0.95 1.25				25	1.7	V	
Peak Reverse Current At Rated DC Blocking Voltage	lгм	5.0 500						μA		
Reverse Recovery Time (Note 1)		trr	35							nS
Typical Junction Capacitance (Note 2)		Cj	10							pF
Typical Thermal Resistance (Note 3)		R_{θ} JL	34							K/W
Operating and Storage Temperature Range		Tj, TsTG	-65 to +150						°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.

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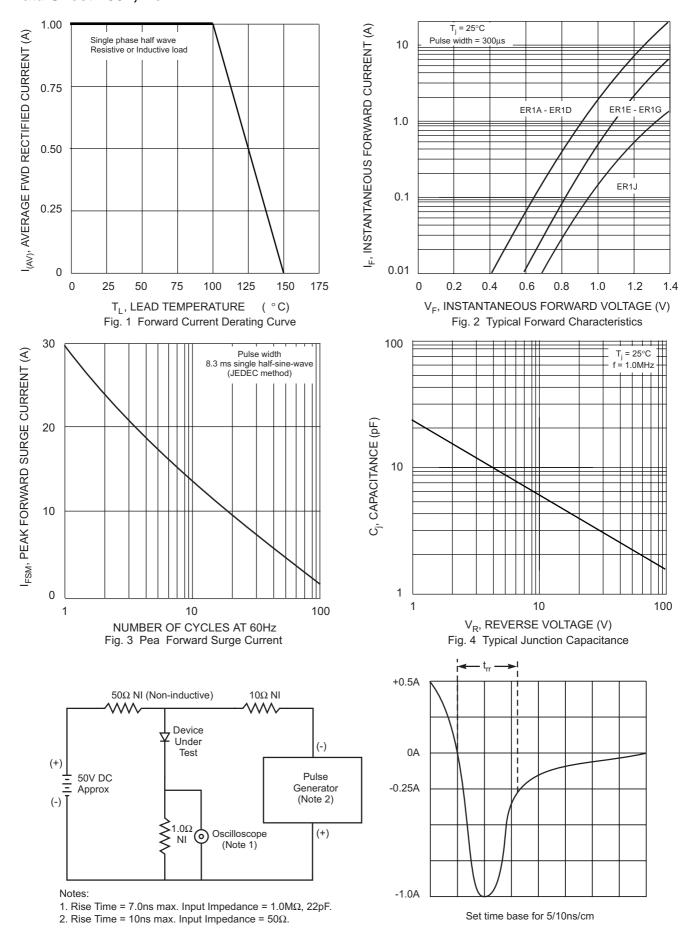


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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SEMSITION SEMICONDUCTOR

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