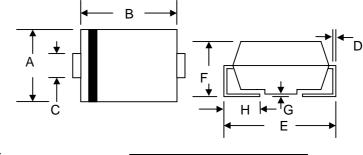




1.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

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



Mechanical Data

- Case: SMB/DO-214AA, 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.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

SMB/DO-214AA					
Dim	Min Max				
Α	3.30	3.94			
В	4.06 4.70				
С	1.91	2.11			
D	0.152	0.305			
Е	5.08	5.59			
F	2.13	2.44			
G	0.051	0.203			
Н	0.76	1.27			
All Dimensions in mm					

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

Characteristic		Symbol	ER1A	ER1B	ER1C	ER1D	ER1E	ER1G	ER1J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	150	200	300	400	600	V
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current	lo	1.0						А		
Non-Repetitive Peak Forward Surge 8.3ms Single half sine-wave superim rated load (JEDEC Method)		IFSM	30				A			
Forward Voltage	@I _F = 1.0A	Vfm	0.95 1.25 1.7				1.7	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	I RM	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∂JL	34					°C/W		
Operating and Storage Temperature Range		Tj, TSTG	-65 to +150					°C		

Note: 1. Measured with $I_{\rm F}$ = 0.5A, $I_{\rm R}$ = 1.0A, $I_{\rm rr}$ = 0.25A. See figure 5.

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.

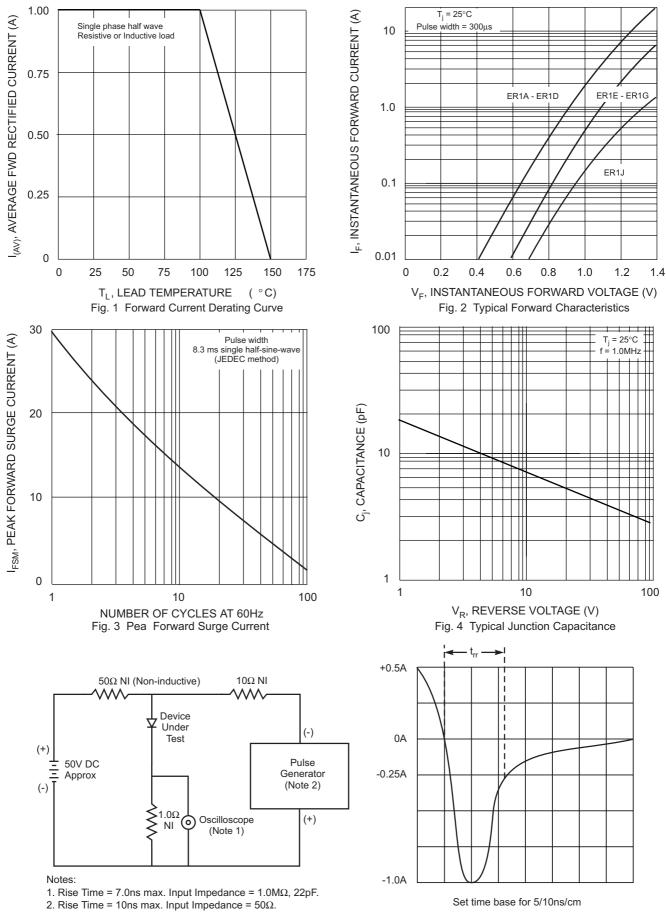
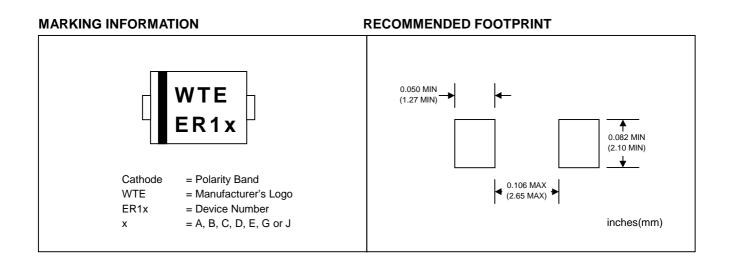
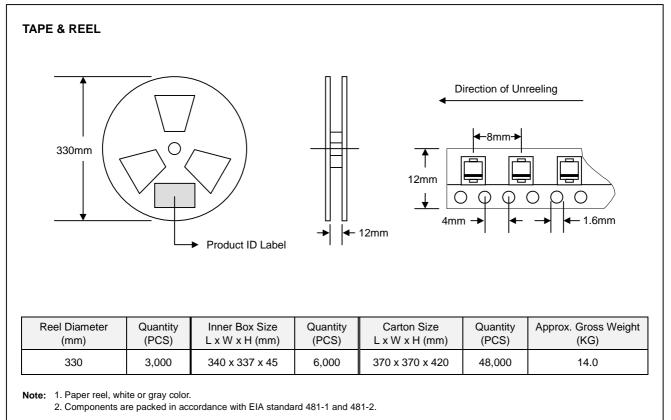


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
ER1A-T3	SMB	3000/Tape & Reel
ER1B-T3	SMB	3000/Tape & Reel
ER1C-T3	SMB	3000/Tape & Reel
ER1D-T3	SMB	3000/Tape & Reel
ER1E-T3	SMB	3000/Tape & Reel
ER1G-T3	SMB	3000/Tape & Reel
ER1J-T3	SMB	3000/Tape & Reel

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, ER1A-T3-LF.

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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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