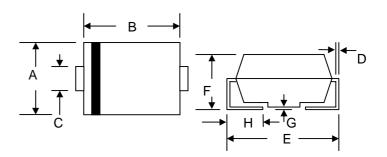


3.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

SMC/DO-214AB					
Dim	Min	Max			
Α	5.59	6.22			
В	6.60	7.11			
С	2.75	3.25			
D	0.152	0.305			
Е	7.75	8.13			
F	2.00	2.62			
G	0.051	0.203			
Н	0.76	1.27			
All Dimensions in mm					

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

Characteristic		Symbol	ER3A	ER3B	ER3C	ER3D	ER3E	ER3G	ER3J	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	٧
Average Rectified Output Current	@T _L = 75°C	Ю	3.0				Α			
Non-Repetitive Peak Forward Surgr 8.3ms Single half sine-wave supering rated load (JEDEC Method)		İFSM	100				А			
Forward Voltage	@I _F = 3.0A	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	IRM	5.0 500				μΑ			
Reverse Recovery Time (Note 1)		trr				35				nS
Typical Junction Capacitance (Note	2)	Cj				45				pF
Typical Thermal Resistance (Note 3)		R_{θ} JL	16						°C/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. 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.

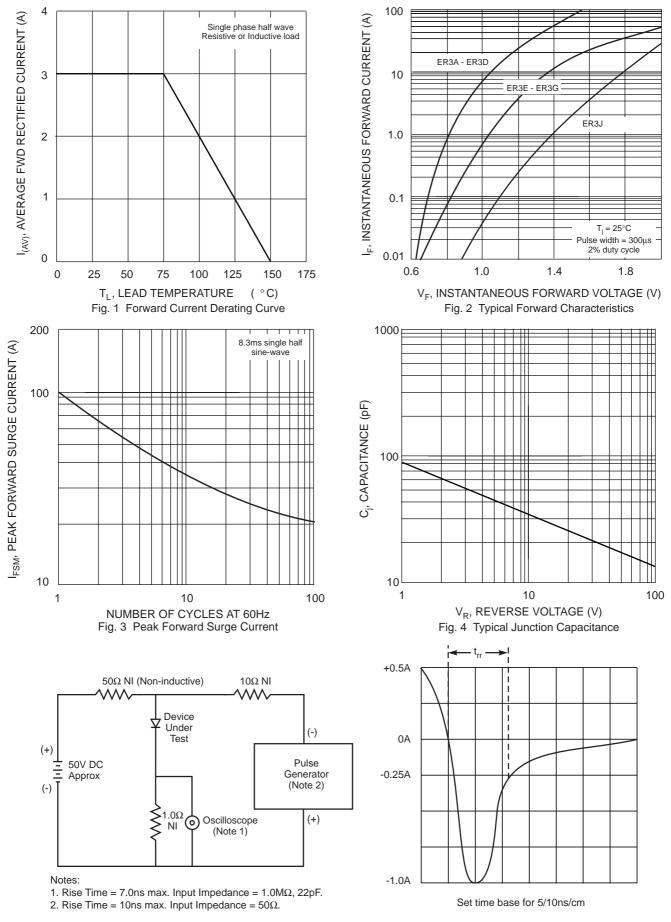
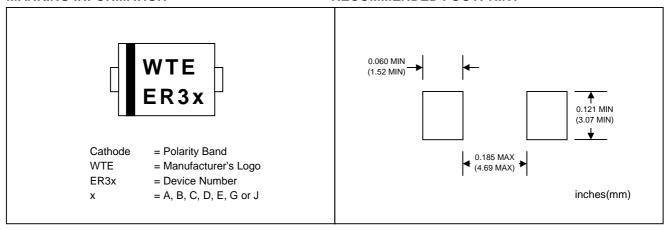
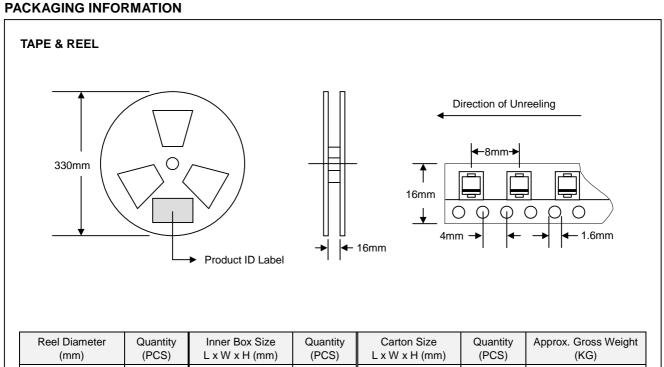


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION

RECOMMENDED FOOTPRINT





Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	19.0

Note: 1. Paper reel, white or gray color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
ER3A-T3	SMC	3000/Tape & Reel
ER3B-T3	SMC	3000/Tape & Reel
ER3C-T3	SMC	3000/Tape & Reel
ER3D-T3	SMC	3000/Tape & Reel
ER3E-T3	SMC	3000/Tape & Reel
ER3G-T3	SMC	3000/Tape & Reel
ER3J-T3	SMC	3000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, ER3A-T3-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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