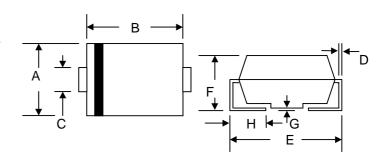




### 2.0A SURFACE MOUNT GLASS PASSIVATED SUPERFAST DIODE

### **Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 50A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



## **Mechanical Data**

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

SMA/DO-214AC					
Dim	Min Max				
Α	2.50	2.90			
В	4.00	4.60			
С	1.20	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<sub>A</sub>=25°C unless otherwise specified

Characteristic		Symbol	ER2AA	ER2BA	ER2CA	ER2DA	ER2EA	ER2GA	ER2JA	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	>
Average Rectified Output Current	@T <sub>L</sub> = 110°C	lo	2.0					Α		
Non-Repetitive Peak Forward Surg 8.3ms Single half sine-wave superi rated load (JEDEC Method)		IFSM	50			А				
Forward Voltage	@I <sub>F</sub> = 2.0A	VFM	0.95 1.25 1.7				1.7	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	IRM	5.0 500					μΑ		
Reverse Recovery Time (Note 1)		trr				35				nS
Typical Junction Capacitance (Note	2)	Cj				25				pF
Typical Thermal Resistance (Note 3	3)	$R_{ heta}JL$				20				°C/W
Operating and Storage Temperatur	e Range	Tj, Tstg			-	65 to +15	60			°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 8.0mm<sup>2</sup> land area.

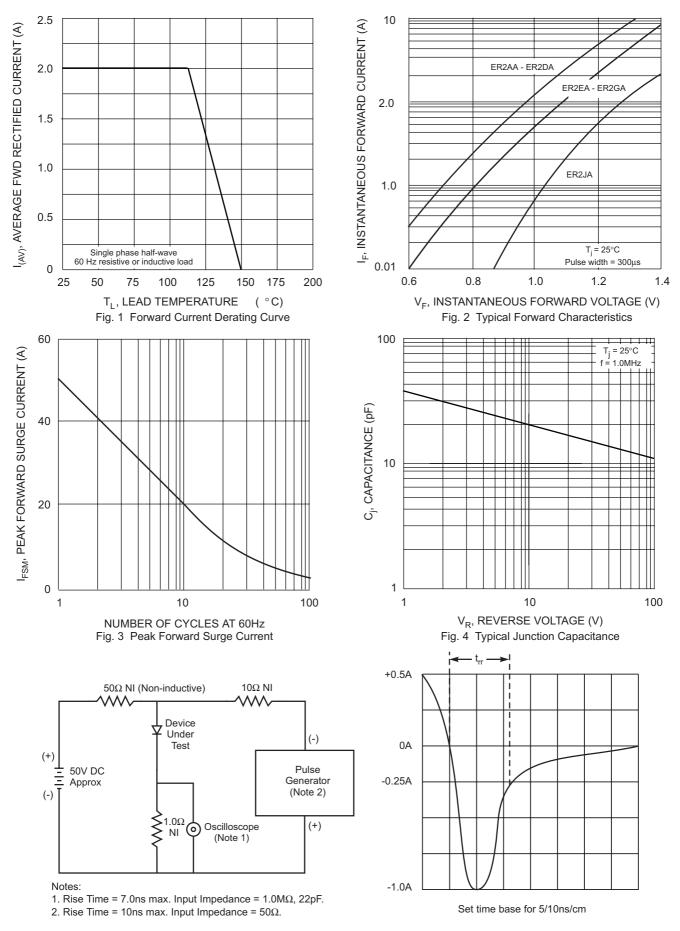
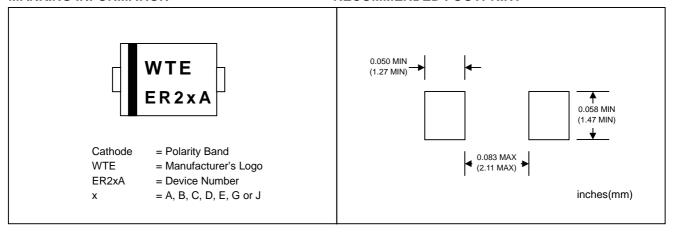
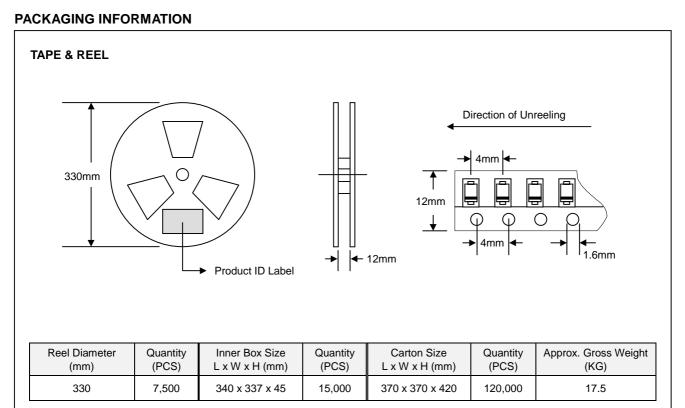


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

## **MARKING INFORMATION**

## **RECOMMENDED FOOTPRINT**





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
ER2AA-T3	SMA	7500/Tape & Reel
ER2BA-T3	SMA	7500/Tape & Reel
ER2CA-T3	SMA	7500/Tape & Reel
ER2DA-T3	SMA	7500/Tape & Reel
ER2EA-T3	SMA	7500/Tape & Reel
ER2GA-T3	SMA	7500/Tape & Reel
ER2JA-T3	SMA	7500/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, ER2AA-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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