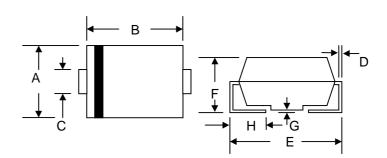


2.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 60A Peak
- Low Power Loss
- Built-in Strain Relief
- 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_A=25°C unless otherwise specified

Characteristic		Symbol	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	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 = 110°C		lo	2.0							Α
Non-Repetitive Peak Forward Sur 8.3ms Single half sine-wave supe rated load (JEDEC Method)	•	İFSM	60						А	
Forward Voltage	@I _F = 2.0A	VFM	1.10						V	
		lгм				5.0 200				μΑ
Reverse Recovery Time (Note 1)		trr	2.5						μS	
Typical Junction Capacitance (Note 2)		Cj	30						pF	
Typical Thermal Resistance (Note 3)		R_{θ} JL	16						°C/W	
Operating and Storage Temperature Range		Тj, Tsтg	-55 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.

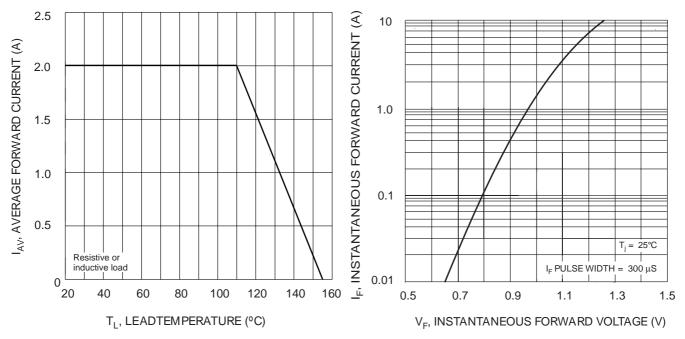
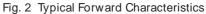
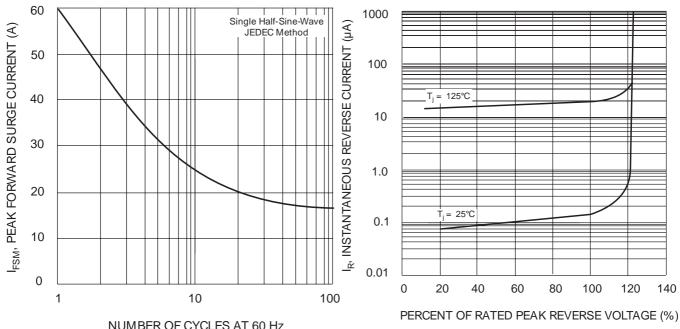


Fig. 1 Forward Current Derating Curve



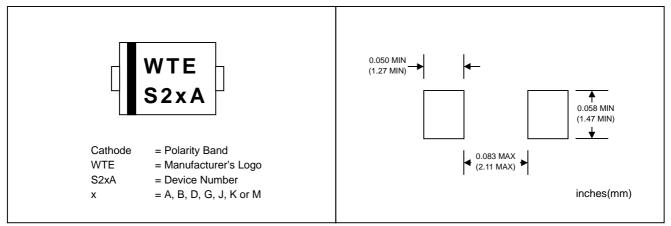


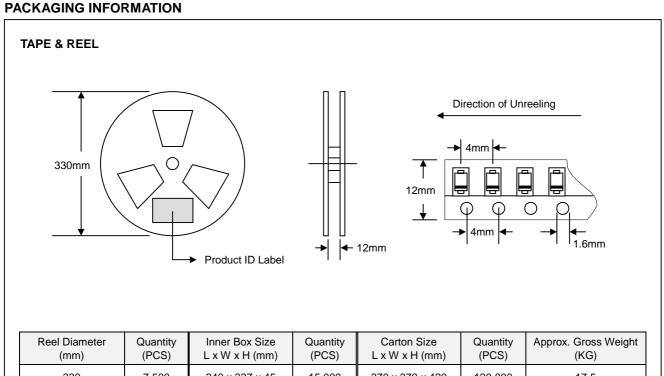
NUMBER OF CYCLES AT 60 Hz Fig. 3 Forward Surge Current Derating Curve

Fig. 4 Typical Reverse Characteristics

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	7,500	340 x 337 x 45	15,000	370 x 370 x 420	120,000	17.5

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
S2AA-T3	SMA	7500/Tape & Reel
S2BA-T3	SMA	7500/Tape & Reel
S2DA-T3	SMA	7500/Tape & Reel
S2GA-T3	SMA	7500/Tape & Reel
S2JA-T3	SMA	7500/Tape & Reel
S2KA-T3	SMA	7500/Tape & Reel
S2MA-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, S2AA-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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