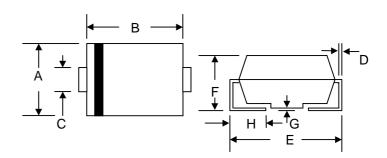
1.0A SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 30A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- 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				
, 53 P	2.00	2.44				
G	0.051	0.203				
н С	0.76	1.52				
All Dimensions in mm						

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

Characteristic	Symbol	SS12	SS13	SS14	SS15	SS16	SS18	SS19	S100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	90	100	٧
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	71	٧
Average Rectified Output Current @T _L = 75°C	Ю	1.0						Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						А		
Forward Voltage @I _F = 1.0A	VFM	0.50 0.70 0.85				V				
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IRM	0.5 20				mA				
Typical Thermal Resistance (Note 1)	RθJL RθJA	28 88						°C/W		
Operating Temperature Range	Tj	-65 to +125						ç		
Storage Temperature Range	Тѕтс	-65 to +150						°C		

Note: 1. Mounted on P.C. Board with 5.0mm² copper pad area.

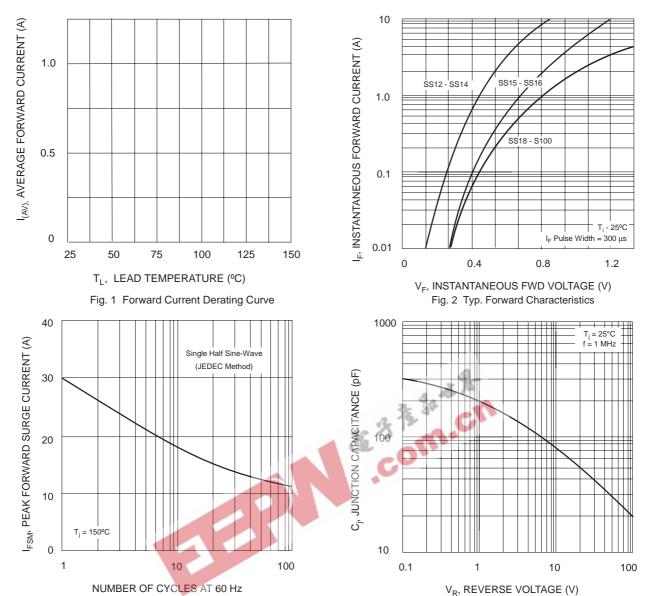
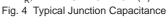
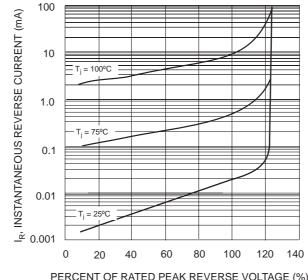


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

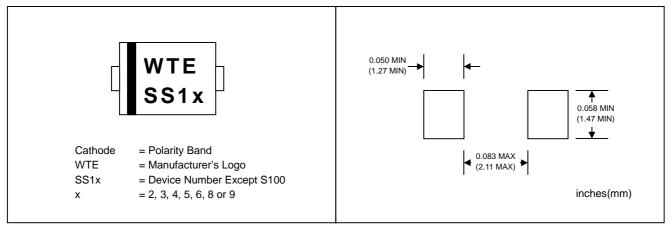




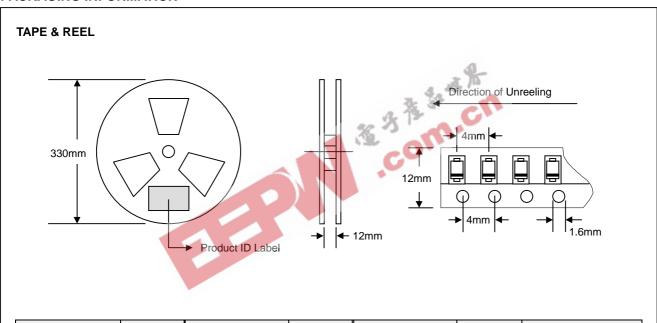
PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics

MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



F	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			
SS12-T3	SMA	7500/Tape & Reel			
SS13-T3	SMA	7500/Tape & Reel			
SS14-T3	SMA	7500/Tape & Reel			
SS15-T3	SMA	7500/Tape & Reel			
SS16-T3	SMA	7500/Tape & Reel			
SS18-T3	SMA	7500/Tape & Reel			
SS19-T3	SMA	7500/Tape & Reel			
S100-T3	SMA	7500/Tape & Reel			

- 1. 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 2. to part number above. For example, SS12-T3-LF.



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