Zibo Seno Electronic Engineering Co., Ltd.



S10A - S10M

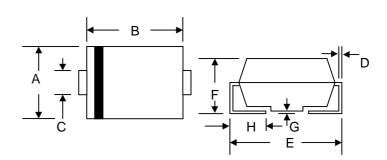




10.0A SURFACE MOUNT GLASS PASSIVATED STANDARD DIODE

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Built-in Strain Relief
- 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

HSMC/DO-214AB							
Dim	Min	Max					
Α	5.95	6.10					
В	6.08	6.18					
С	4.70	5.30					
D	0.152	0.305					
E	7.85	8.18					
F	4.27	4.55					
G	0.051	0.51					
Н	1.20	1.42					
All Dimensions in mm							

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

Characteristic	Symbol	S10A	S10B	S10D	S10G	S10J	S10K	S10M	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	٧
Average Rectified Output Current @T _L = 75°C	lo	10.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				200				А
Forward Voltage @I _F = 10.0A	₩M	1.15							V
	IRM	10 250						μΑ	
Typical Junction Capacitance (Note 1)	Cj				40				pF
Typical Thermal Resistance (Note 2)	R_{θ} JL				10				°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150			°C				

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2. Mounted on P.C. Board with 8.0mm² land area.

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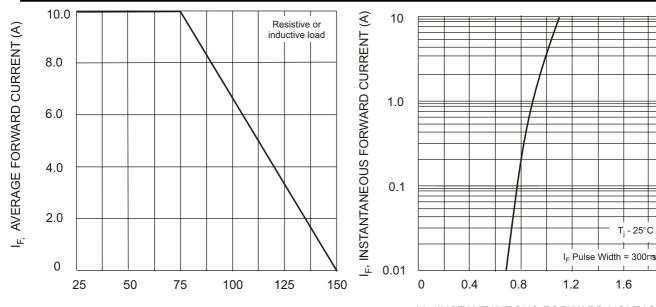




T_i - 25°C

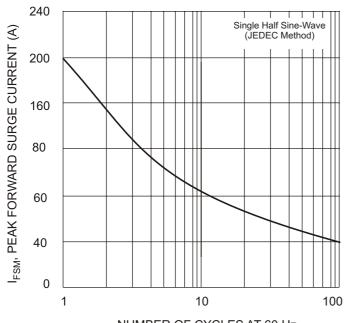
2.0

1.6

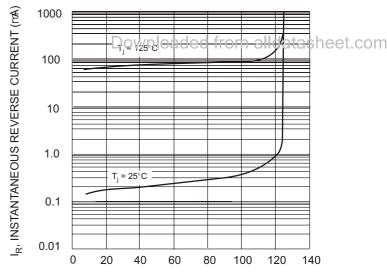


T_T, TERMINAL TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve

V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



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



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 4 Typical Reverse Characteristics