

## S10A THRU S10M

## SURFACE MOUNT GENERAL RECTIFIER

10.0

100.0

60.0

10.0

-55 to +150

东莞市佑风微电子有限公司

DONGGUAN YOU FENG WEI ELECTRONICS CO., LTD

μΑ

pF

°C/W

°C

Reverse Voltage - 50 to 1000 Volts Forward Current - 10.0 Amperes

DO-214AB/SMC		FEATURES							
0.126 (3.20) 0.114 (2.90) 0.114 (2.90) 0.220(5.59) 0.200(5.59) 0	<ul> <li>The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>For surface mounted applications</li> <li>Low reverse leakage</li> <li>Built-in strain relief,ideal for automated placement</li> <li>High forward surge current capability</li> <li>High temperature soldering guaranteed: 250°C/10 seconds at terminals</li> </ul>								
0.000(1.52) 0.030(0.78) 0.030(0.78) 0.030(0.775) Dimensions in inches and (millimeters)	Tei Me Po Mo	MECHANICAL DATA Case: JEDEC DO-214AB molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.007 ounce, 0.25grams							
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS									
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.									
YFW Catalog Number	SYMBOLS	S10A	S10B	S10D	S10G	S10J	S10K	S10M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=75°C	l(AV)	10.0 Amps						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	250.0 Amps							Amps
Maximum instantaneous forward voltage at 10.0A	Vf	1.2 Volts						Volts	

IR

С

Reja

Tj,Tstg

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\*Pulse test: Pulse width 200 µsec, Duty cycle 2%

Operating junction and storage temperature range

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

Ta=25℃

Ta=100℃

Maximum DC reverse current

at rated DC blocking voltage

Typical junction capacitance (NOTE 1)

Typical thermal resistance (NOTE 2)



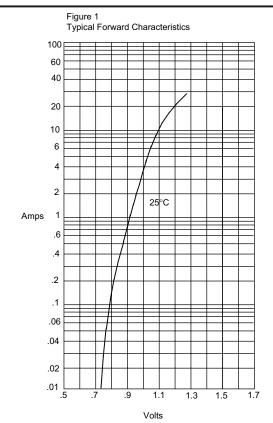
## **RATINGS AND CHARACTERISTIC CURVES S10A THRU S10M**

Figure 2

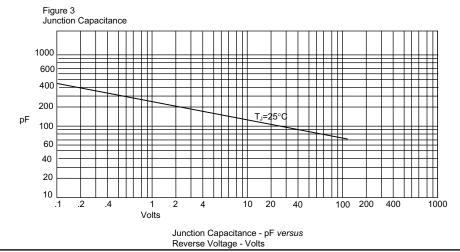
12

10

Forward Derating Curve



Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



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8 6 Amps 4 2 Single Phase, Half Wave 60Hz Resistive or Inductive Loa 0 40 60 80 100 120 140 160

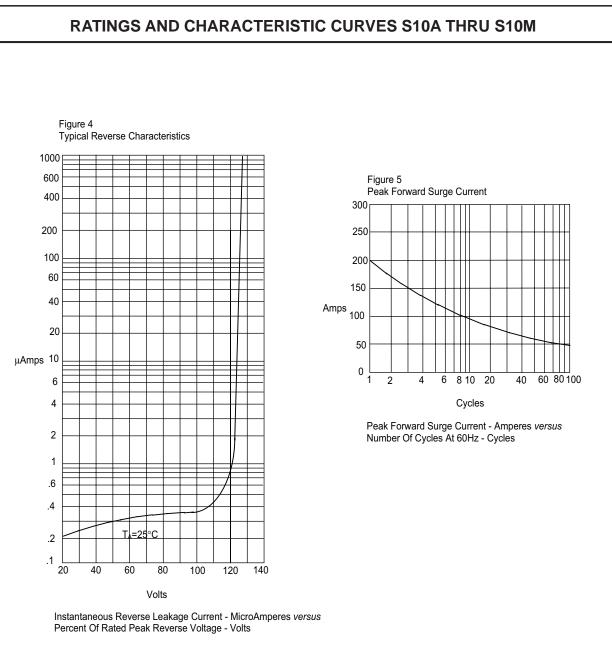
> °C Average Forward Rectified Current - Amperes versus Case Temperature - °C

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