

S10A THRU S10M

SURFACE MOUNT GENERAL RECTIFIER

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

DO-214AB/SMC 0.245(6.22) 0.280(7.11) 0.103(2.62) 0.060(1.52) 0.008(0.203)MAX

Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

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%.

TWGMC 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
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lғsм	200.0							Amps
Maximum instantaneous forward voltage at 10.0A	VF	1.2						Volts	
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	10.0 100.0							μΑ
Typical junction capacitance (NOTE 1)	Cı	60.0						pF	
Typical thermal resistance (NOTE 2)	RθJA	10.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150						°C	

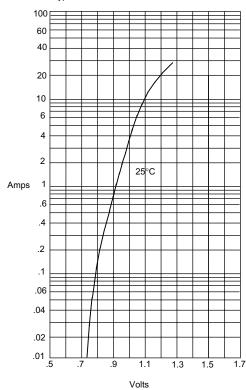
*Pulse test: Pulse width 200 usec, Duty cycle 2%

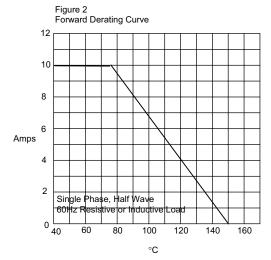
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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RATINGS AND CHARACTERISTIC CURVES S10A THRU S10M

Figure 1 Typical Forward Characteristics

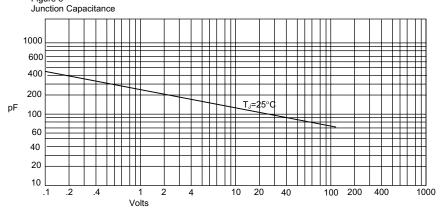




Average Forward Rectified Current - Amperes versus Case Temperature - $^{\circ}\text{C}$

Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

Figure 3



Junction Capacitance - pF *versus* Reverse Voltage - Volts

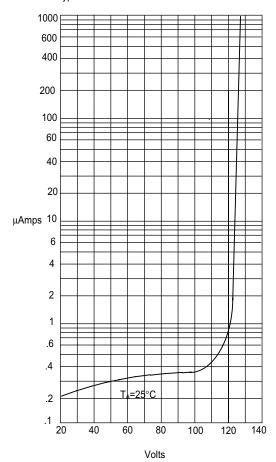
The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

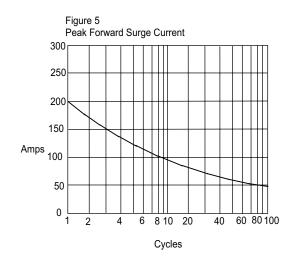
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RATINGS AND CHARACTERISTIC CURVES S10A THRU S10M

Figure 4
Typical Reverse Characteristics





Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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单击下面可查看定价,库存,交付和生命周期等信息

>>TWGMC(台湾迪嘉)