NOT RECOMMENDED FOR NEW DESIGNS USE S10AL-TP~S10ML-TP Series



Micro Commercial Components



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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Thermal Resistance
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Maximum Thermal Resistance: 10°C/W Junction To Case
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S10A	S10A	50V	35V	50V
S10B	S10B	100V	70V	100V
S10D	S10D	200V	140V	200V
S10G	S10G	400V	280V	400V
S10J	S10J	600V	420V	600V
S10K	S10K	800V	560V	800V
S10M	S10M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

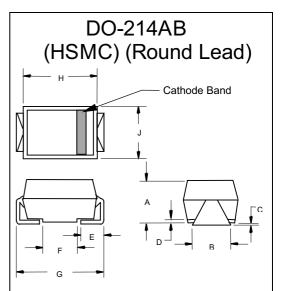
Average Forward Current	I _{F(AV)}	10.0A	T _c = 75°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.20V	I _{FM} = 10.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ	T _J = 25°C

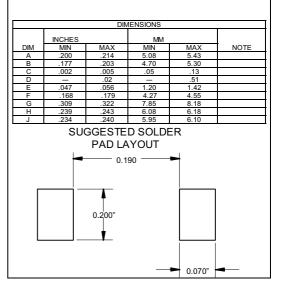
*Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

S10A THRU S10M

10 Amp Silicon Rectifier 50 to 1000 Volts

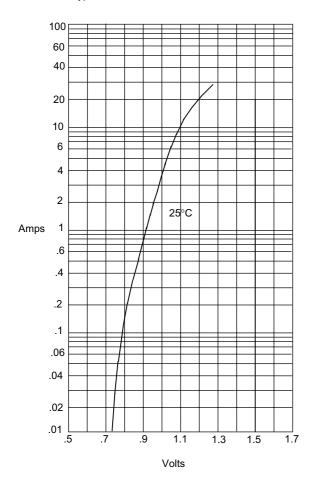




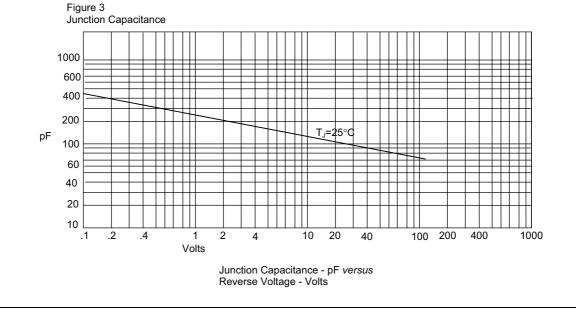
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S10A thru S10M

Figure 1 Typical Forward Characteristics

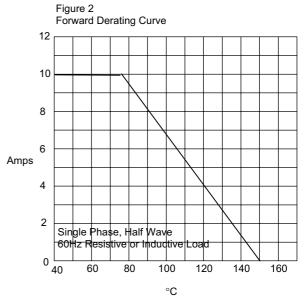


Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



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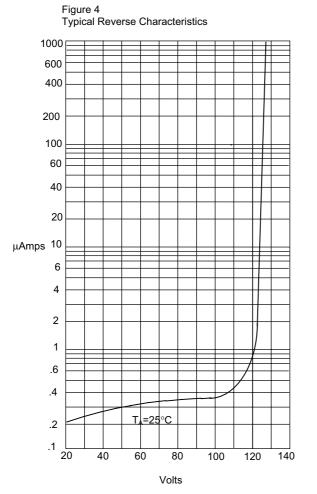


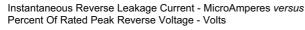


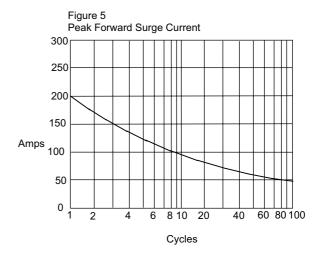
Average Forward Rectified Current - Amperes versus Case Temperature - $^\circ \mathrm{C}$

S10A thru S10M









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

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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 1.5Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Micro Commercial Components (MCC): <u>S10A-TP</u> <u>S10D-TP</u> <u>S10M-TP</u> <u>S10G-TP</u> <u>S10J-TP</u> <u>S10K-TP</u> <u>S10B-TP</u>