

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- High Current Capability With Low Forward Voltage
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 18°C/W Junction To Lead

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MST		Maximum Maximum		Maximum
Part	Device	Recurrent RMS		DC
Number	Marking	Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK102	SK102	20V	14V	20V
SK103	SK103	30V	21V	30V
SK104	SK104	40V	28V	40V
SK1045	SK1045	45V	31.5V	45V
SK105	SK105	50V	35V	50V
SK106	SK106	60V	42V	60V
SK108	SK108	80V	56V	80V
SK1010	SK1010	100V	70V	100V

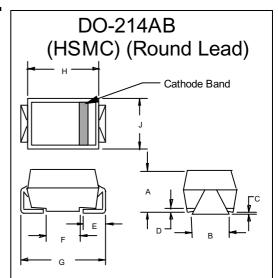
Electrical Characteristics @ 25°C Unless Otherwise Specified

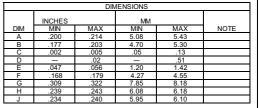
Average Forward Current	I _{F(AV)}	10.0A	T _∟ = 95°C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK102-1045	V _F	.65V	I _{FM} = 10.0A;
SK105-1010		.85V	T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1mA 20mA	T _J = 25°C T _J = 100°C
Typical Junction Capacitance	CJ	500pF	Measured at 1.0MHz, V _R =4.0V

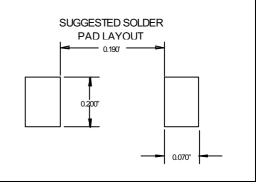
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SK102 THRU SK1010

10 Amp Schottky Rectifier 20 to 100 Volts







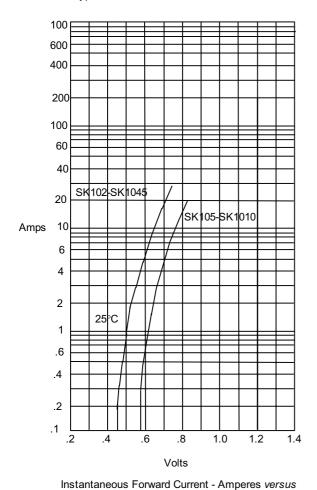
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Revision: 7

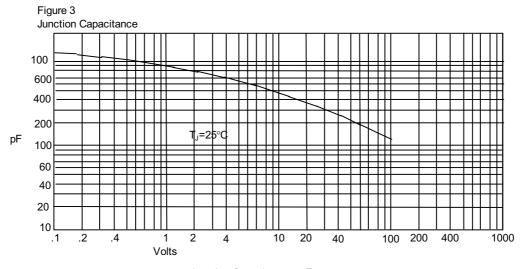
SK102 thru SK1010

Figure 1

Typical Forward Characteristics



Instantaneous Forward Voltage - Volts

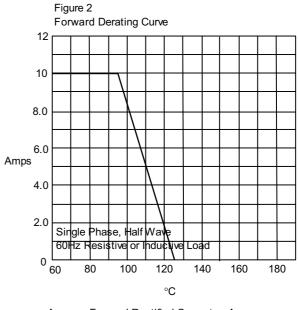


Junction Capacitance - pF versus Reverse Voltage - Volts

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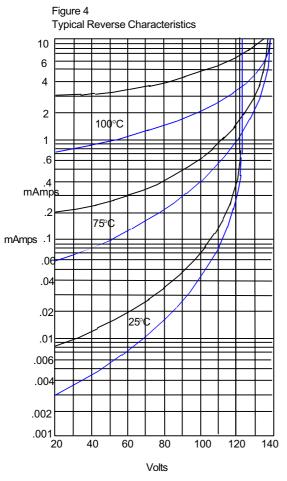
Average Forward Rectified Current - Amperes versus Lead Temperature - C

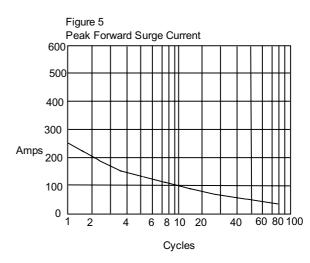
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SK102 thru SK1010



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

SK102-SK1045 SK105-SK1010	
SK 105-SK 1010	

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

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel1.5Kpcs/Reel

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