NOT RECOMMENDED FOR NEW DESIGNS



Micro Commercial Components



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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
- Halogen free available upon request by adding suffix "-HF"

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

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
SK1035	SK1035	35V	24.5V	35V
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 _L = 95°C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK102-1045 SK105-1010	V _F	.65V .85V	I _{FM} = 10.0A; 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

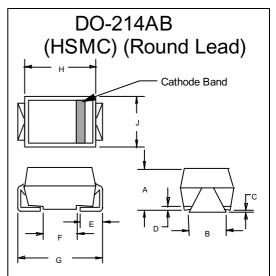
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

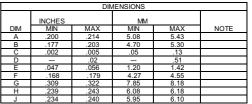
www.mccsemi.com

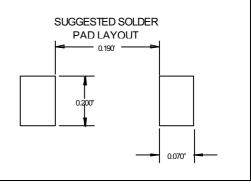
Revision: C

SK102 THRU SK1010

10 Amp Schottky Rectifier 20 to 100 Volts



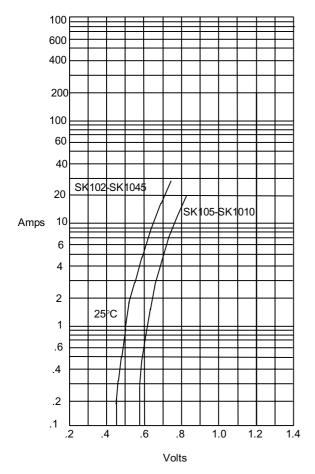




SK102 thru SK1010

Figure 1

Typical Forward Characteristics



M.C.C.

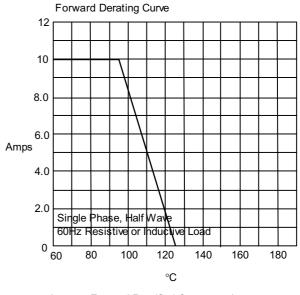
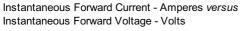
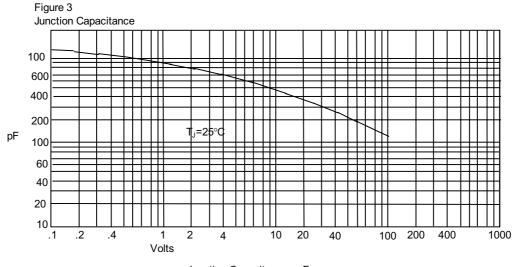


Figure 2





Junction Capacitance - pF versus Reverse Voltage - Volts

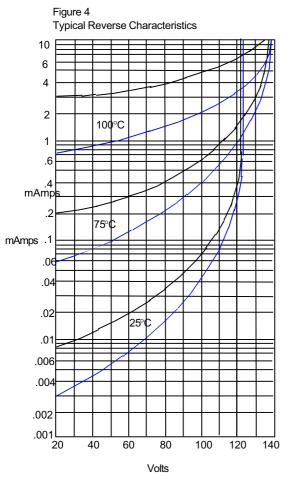
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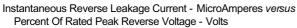
Average Forward Rectified Current - Amperes versus Lead Temperature - C

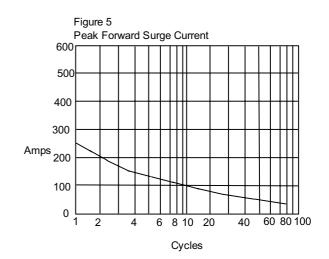
SK102 thru SK1010



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

SK105-SK1010	K1010
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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): SK103-TP SK1045-TP SK104-TP SK106-TP SK1010-TP SK1035-TP