NOT RECOMMENDED FOR NEW DESIGNS



Micro Commercial Components



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SK102 THRU SK1010

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"

10 Amp Schottky Rectifier 20 to 100 Volts

(HSMC) (Round Lead)

Cathode Band

DO-214AB

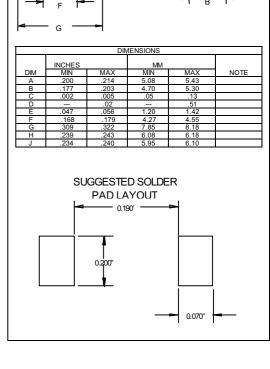
Maximum Ratings

- 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	I _{F(AV)}	10.0A	$T_L = 95^{\circ}C$
Current	, ,		
Peak Forward Surge	I _{FSM}	250A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
SK102-1045	V_{F}	.65V	$I_{FM} = 10.0A;$
SK105-1010		.85V	$T_J = 25^{\circ}C^*$
Maximum DC			
Reverse Current At	I_R	1mA	$T_J = 25^{\circ}C$
Rated DC Blocking		20mA	$T_J = 100^{\circ}C$
Voltage			
Typical Junction	C_{2}	500pF	Measured at
Capacitance			1.0MHz, V _R =4.0V



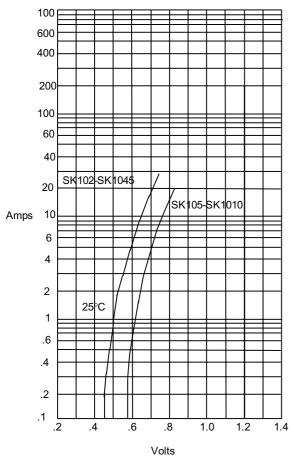
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

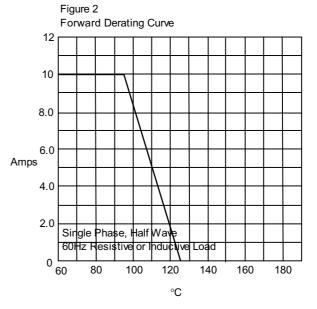
SK102 thru SK1010

Figure 1
Typical Forward Characteristics



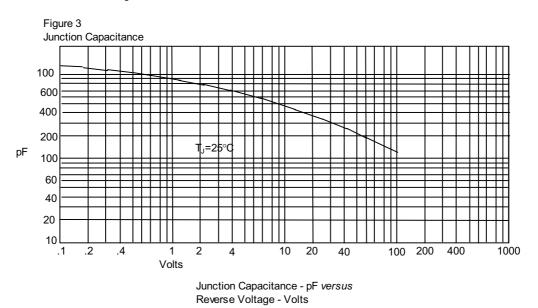
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Average Forward Rectified Current - Amperes versus Lead Temperature - C

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

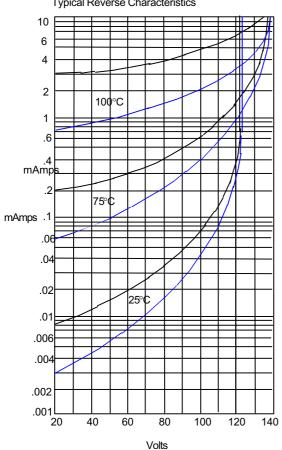


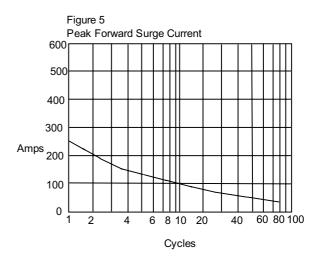
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Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

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



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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