



Micro Commercial Components



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

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

Table with 5 columns: MST Part Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include SK102 through SK1010.

DO-214AB
(HSMC) (Round Lead)

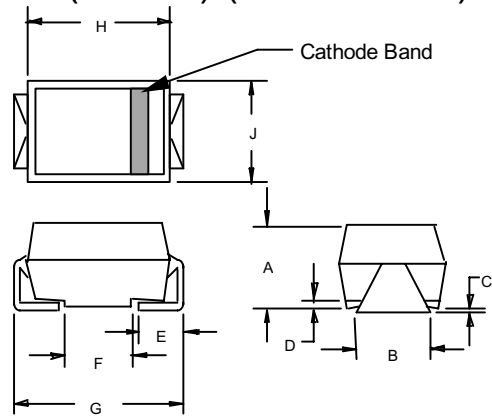
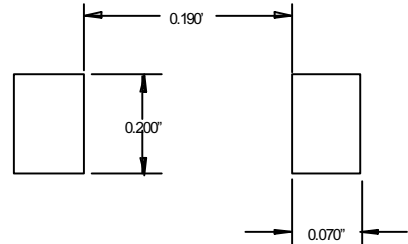


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Dimensions A through J.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Average Forward Current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current At Rated DC Blocking Voltage, Typical Junction Capacitance.

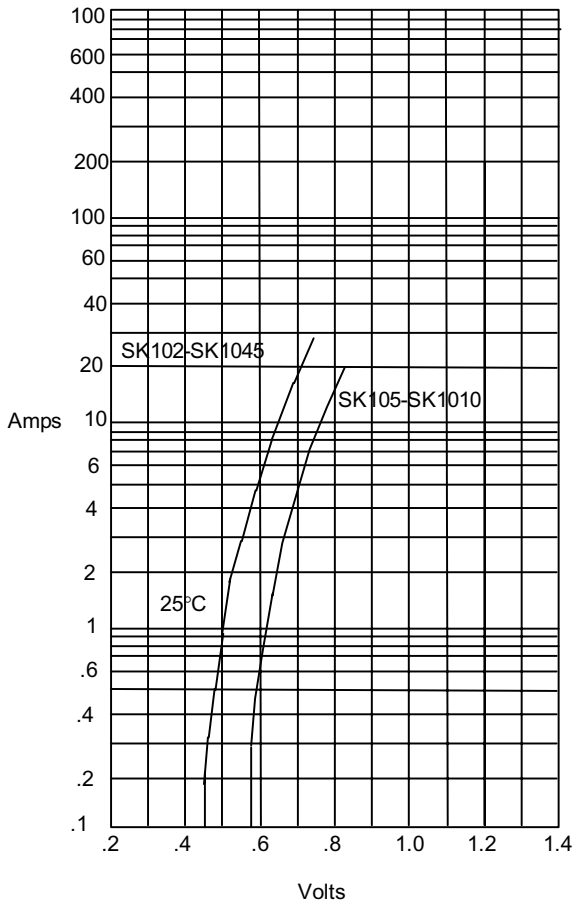
SUGGESTED SOLDER PAD LAYOUT



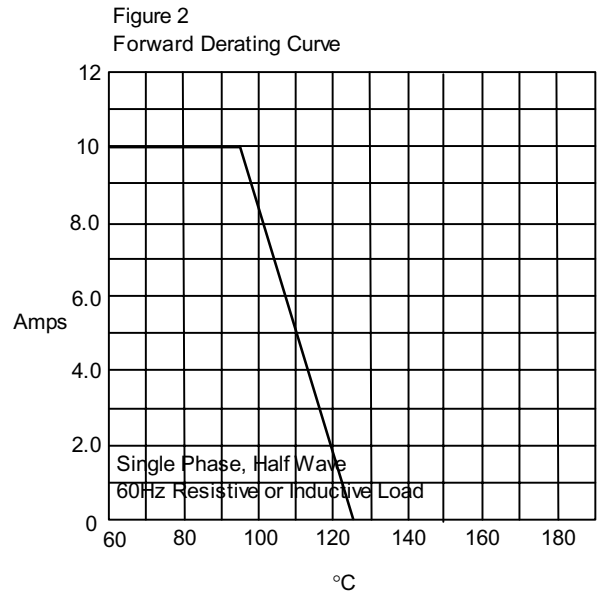
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SK102 thru SK1010

Figure 1
Typical Forward Characteristics

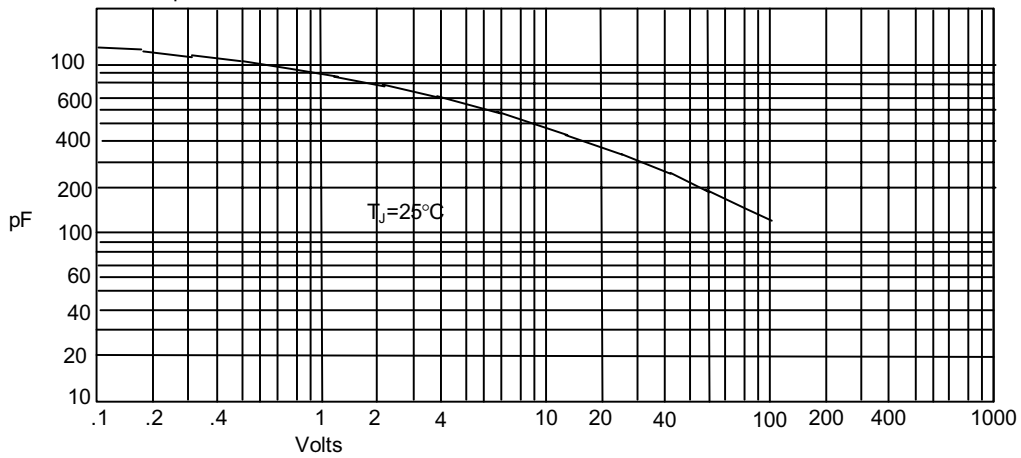


Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes *versus* Lead Temperature - C

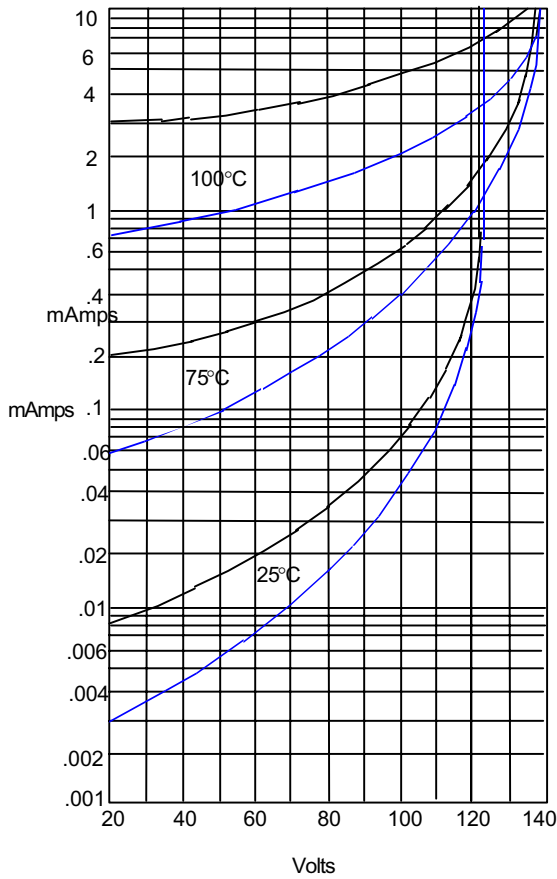
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus* Reverse Voltage - Volts

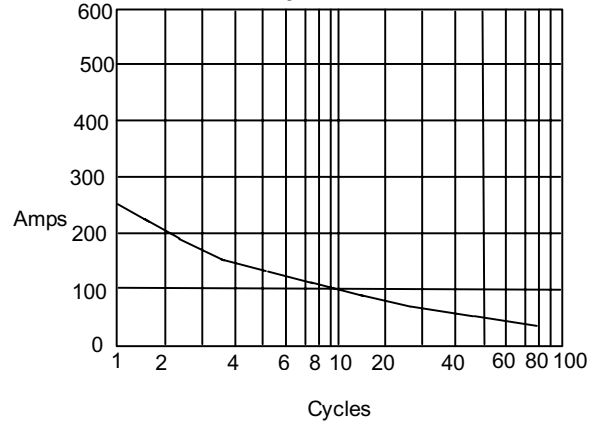
SK102 thru SK1010

Figure 4
Typical Reverse Characteristics



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

Figure 5
Peak Forward Surge Current



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

SK102-SK1045	— (black line)
SK105-SK1010	— (blue line)



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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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