



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

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)

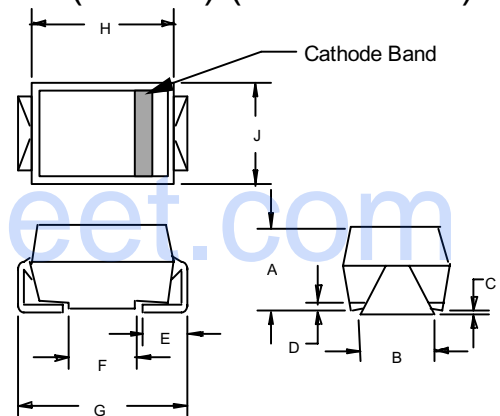
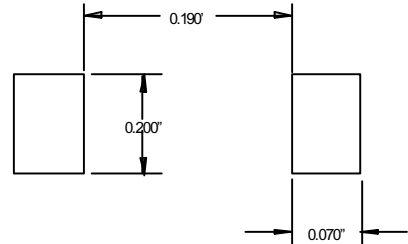


Table titled DIMENSIONS with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A through J.

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

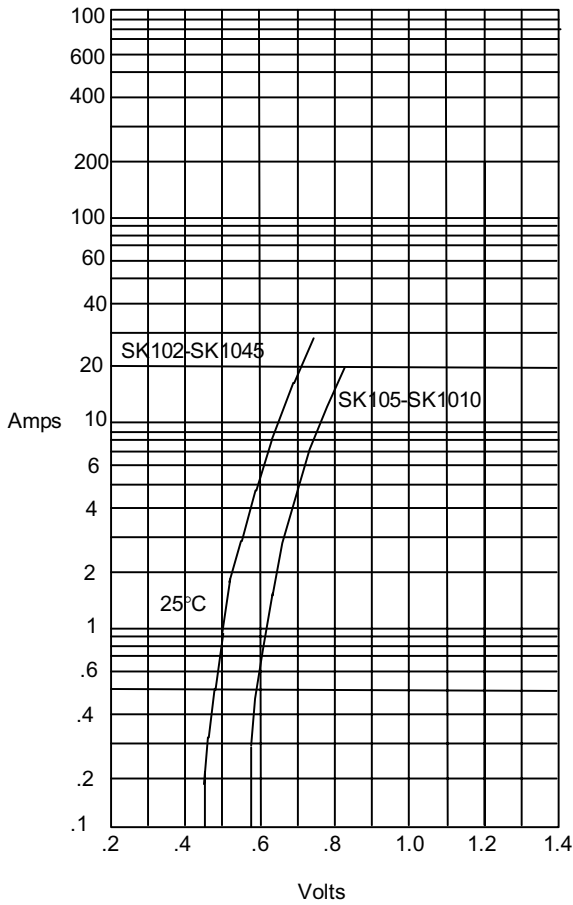
SUGGESTED SOLDER PAD LAYOUT



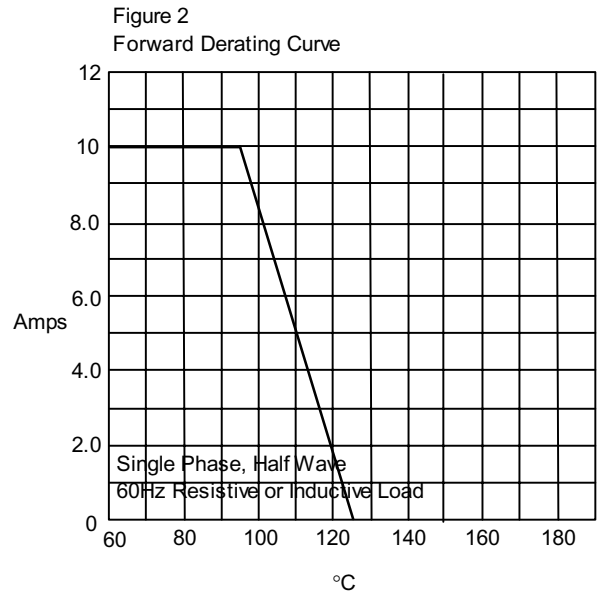
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SK102 thru SK1010

Figure 1
Typical Forward Characteristics

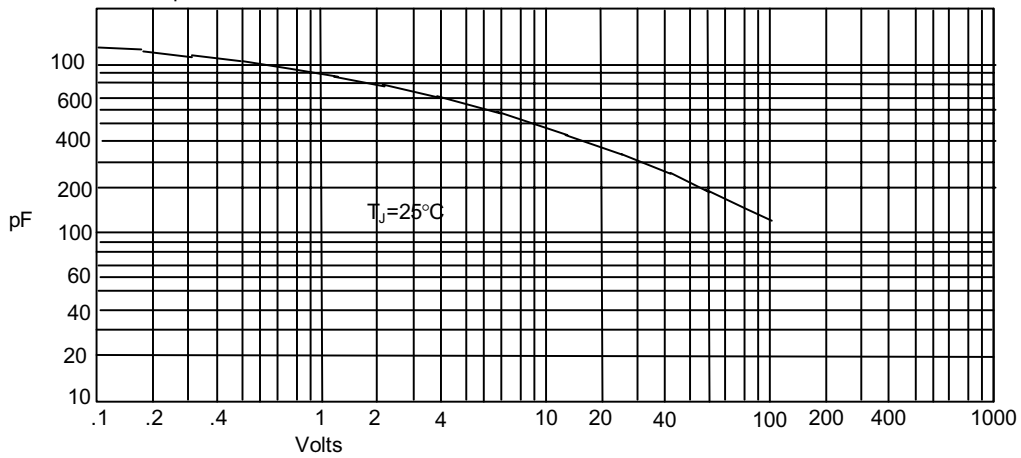


Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes
versus Lead Temperature - C

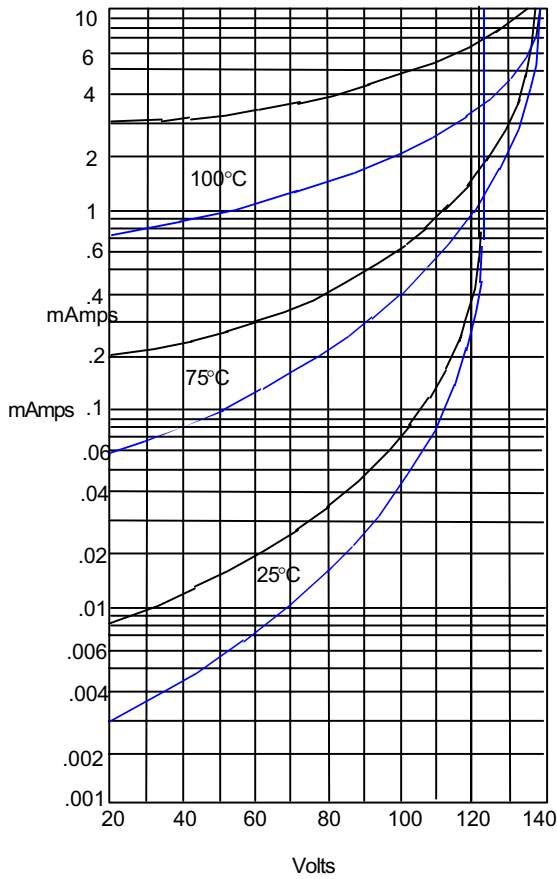
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

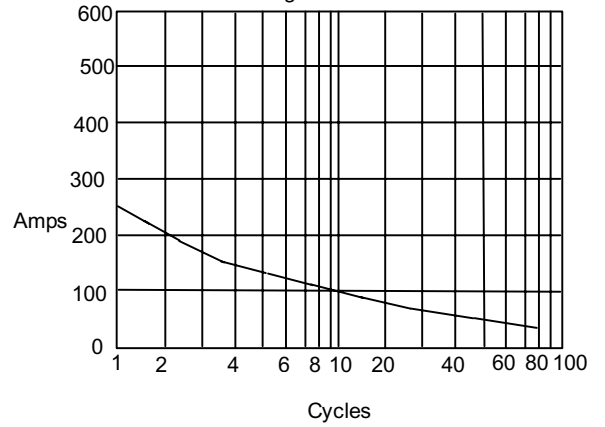
SK102 thru SK1010

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	—
SK105-SK1010	—



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Ordering Information :

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

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