

**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) High Current Capability
- For Surface Mount Applications
- Higher Temp Soldering : 260°C for 10 Seconds At Terminals
- Available on Tape and Reel
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

#### laximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 16°C/W Junction To Lead
  - 55°C/W Junction To Ambient

MCC Catalog	Device Marking	Maximum Reccurrent	Maximum RMS	Maximum DC
Number		Peak Reverse Voltage Voltage		Blocking Voltage
SK52L	SK52	20V	14V	20V
SK53L	SK53	30V	21V	30V
SK54L	SK54	40V	28V	40V
SK55L	SK55	50V	35V	50V
SK56L	SK56	60V	42V	60V
SK58L	SK58	80V	56V	80V
SK510L	SK510	100V	70V	100V

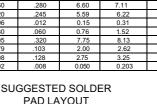
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5.0A	Tc = 120°C		
Peak Forward Surge Current	I <sub>FSM</sub>	100A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage SK52L~54L SK55L~56L SK58L~510L	V <sub>F</sub>	.55V .75V .85V	I <sub>FM</sub> = 5.0A; T <sub>J</sub> = 25°C		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1.0mA 20mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C		
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V		
*Dulas test. Dulas width 200 uses. Duty system 20/					

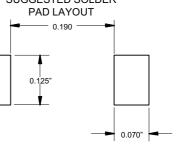


Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

# 0.125



MAX



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INCHES

MIN

.220

.305 .079

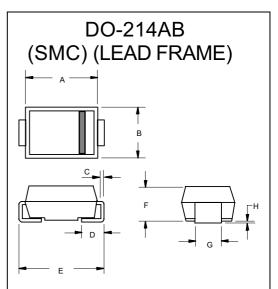
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DIN

E

# SK52L THRU **SK510L**

### **5 Amp Schottky Rectifier** 20 to 100 Volts



DIMENSIONS

MA)

ΜN

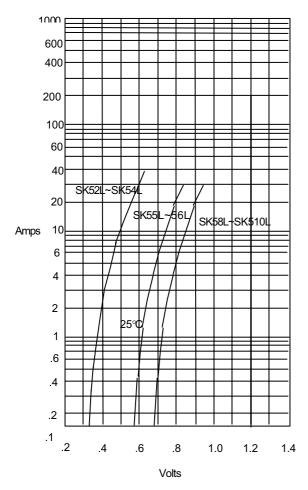
MIN

NOTE

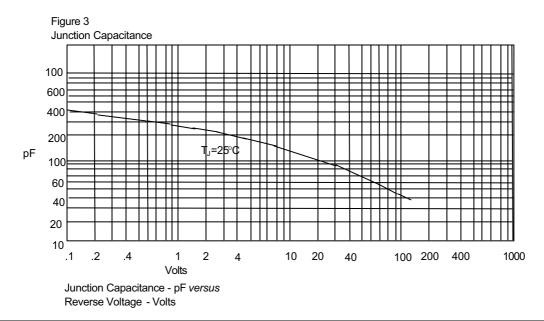
### SK52L thru SK510L

Figure 1

Typical Forward Characteristics

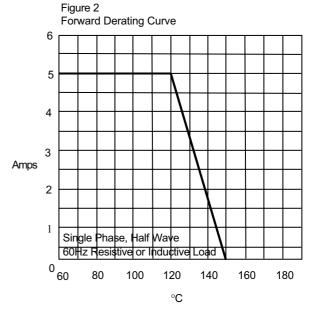


Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



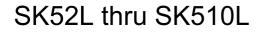


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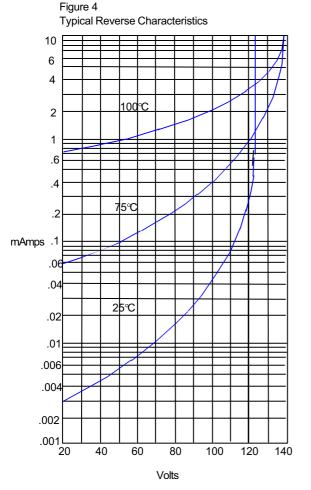


Average Forward Rectified Current - Amperes versus Case Temperature -  $^{\circ}\text{C}$ 

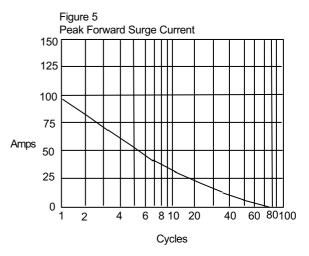
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Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts



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

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#### **Ordering Information :**

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

#### **\*\*\*IMPORTANT NOTICE\*\*\***

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### **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC): <u>SK54L-TP</u> <u>SK510L-TP</u> <u>SK52L-TP</u> <u>SK55L-TP</u> <u>SK56L-TP</u> <u>SK58L-TP</u>