

**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

## Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) For Surface Mount Applications
- Easy Pick And Place
- High Current Capability With Low Forward Voltage High Temp Soldering: 260°C for 10 Seconds At Terminals
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Halogen free available upon request by adding suffix "-HF"

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 18°C/W Junction To Lead

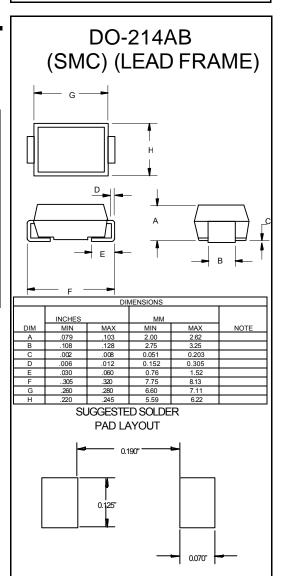
MCC		Maximum Maximum		Maximum
Part	Device	Recurrent RMS		DC
Number	Marking	Peak Reverse	Voltage	Blocking
	-	Voltage		Voltage
SK62L	SK62	20V	14V	20V
SK63L	SK63	30V	21V	30V
SK64L	SK64	40V	28V	40V
SK645L	SK645	45V	31.5V	45V
SK65L	SK65	50V	35V	50V
SK66L	SK66	60V	42V	60V
SK68L	SK68	80V	56V	80V
SK610L	SK610	100V	70V	100V

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

Average Forward Current	I <sub>F(AV)</sub>	6.0A	$T_J = 120^{\circ}C$
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK62L-645L SK65L-610L	V <sub>F</sub>	.65V .85V	I <sub>FM</sub> = 6.0A; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1.0mA 20mA	$\begin{array}{l} T_{\rm J}=25^{\circ}C\\ T_{\rm J}=100^{\circ}C \end{array}$
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

SK62L THRU **SK610L** 

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



\*Pulse test: Pulse width 200 µsec, Duty cycle 2%

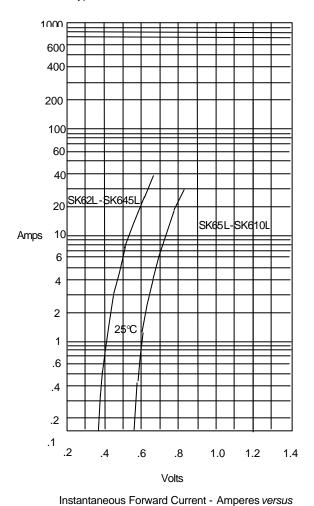
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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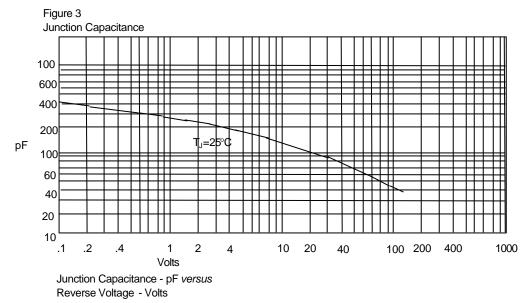
# SK62L thru SK610L

Figure 1

Typical Forward Characteristics



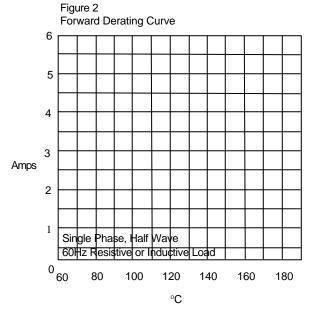
Instantaneous Forward Voltage - Volts



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Average Forward Rectified Current - Amperes <code>versus</code> Ambient Temperature -  $^{\circ}\text{C}$ 

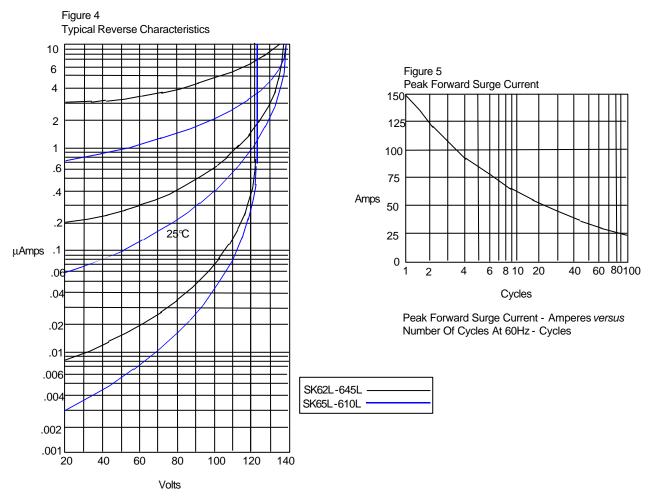


**Revision:** C





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

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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

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