

Micro Commercial Components



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# SK82L THRU SK810L

### **Features**

- High Current Capability
- Low Forward Voltage
- For Surface Mount Application
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- 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
- Typical Thermal Resistance: 18°C/W Junction to Lead

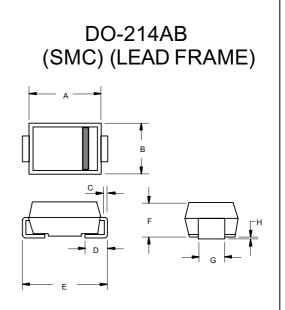
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK82L	SK82	20V	14V	20V
SK83L	SK83	30V	21V	30V
SK835L	SK835	35V	24.5V	35V
SK84L	SK84	40V	28V	40V
SK845L	SK845	45V	31.5V	45V
SK86L	SK86	60V	42V	60V
SK88L	SK88	80V	56V	80V
SK810L	SK810	100V	70V	100V

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

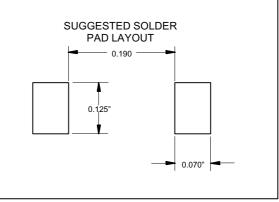
Average Forward Current	I <sub>F(AV)</sub>	8.0A	T <sub>J</sub> =95°C
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms half sine
Maximum Instantaneous Forward Voltage SK82L-86L SK88L-810L	V <sub>F</sub>	.65V .80V	I <sub>FM</sub> =8.0A T <sub>A</sub> =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1mA 20mA	TJ=25°C TJ=100°C
Typical Junction Capacitance	CJ	400pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

## 8.0 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.260	.280	6.60	7.11		
В	.220	.245	5.59	6.22		
С	.006	.012	0.15	0.31		
D	.030	.060	0.76	1.52		
E	.305	.320	7.75	8.13		
F	.079	.103	2.00	2.62		
G	.108	.128	2.75	3.25		
Н	.002	.008	0.050	0.203		

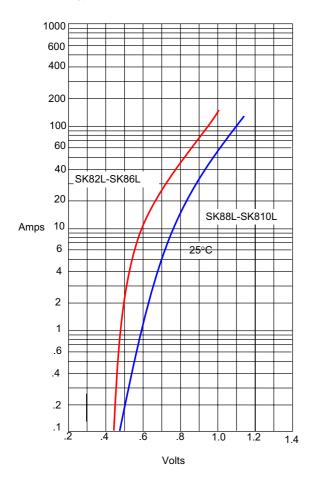


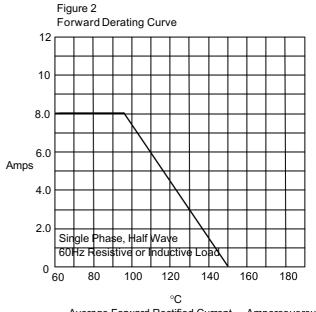
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## SK82L thru SK810L

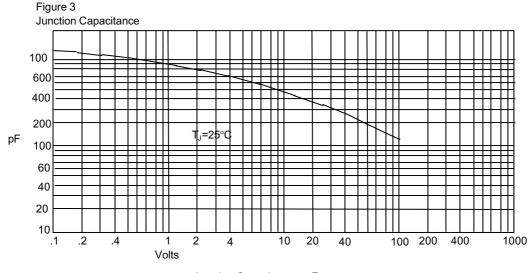
Figure 1 Typical Forward Characteristics

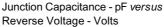




Average Forward Rectified Current - Amperesversus Junction Temperature  $\ -^\circ C$ 

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

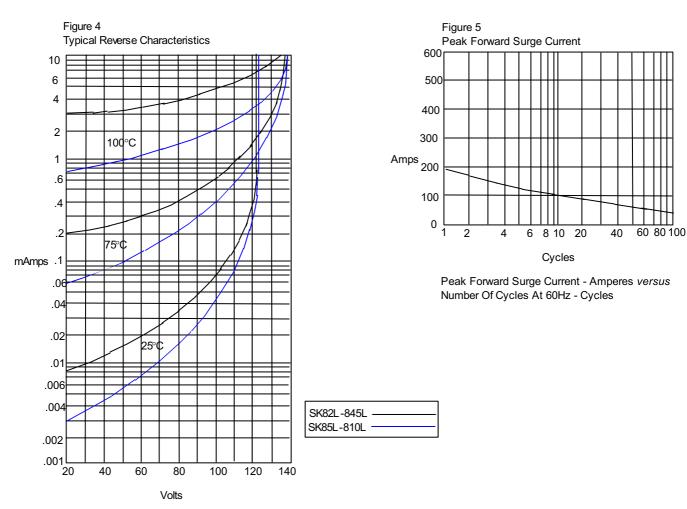




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## SK82L thru SK810L



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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