

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SK82L **THRU SK810L**

8.0 Amp

Schottky Rectifier

20 to 100 Volts

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

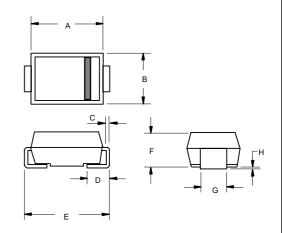
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK82L	SK82	20V	14V	20V
SK83L	SK83	30V	21V	30V
SK835L	SK835	35V	24.5V	35V
SK84L	SK84	40V	28V	40V
SK845L	SK845	45V	31.5V	45V
SK86L	SK86	60V	42V	60V
SK88L	SK88	80V	56V	80V
SK810L	SK810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

Electrical Characteristics @ 25°C Unless Otherwise Specified

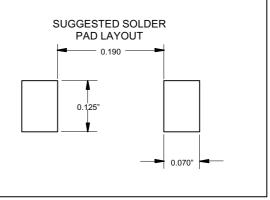
Average Forward Current	I _{F(AV)}	8.0A	T _J =95°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms half sine
Maximum Instantaneous Forward Voltage SK82L-86L SK88L-810L	V _F	.65V .80V	I _{FM} =8.0A T _A =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1mA 20mA	T _J =25°C T _J =100°C
Typical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

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

DO-214AB (SMC) (LEAD FRAME)



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.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		





SK82L thru SK810L

Figure 1 Typical Forward Characteristics

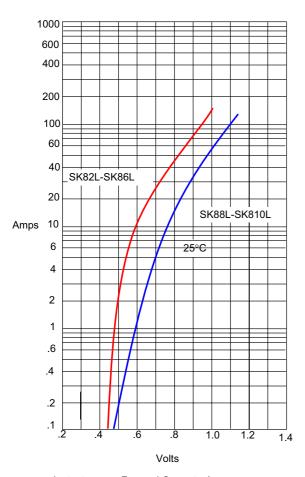
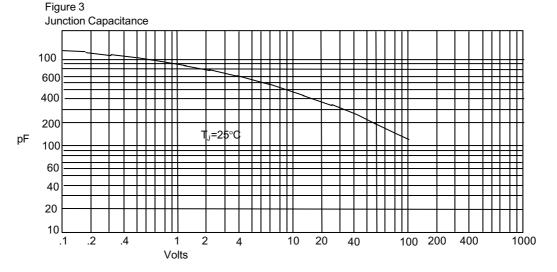


Figure 2 Forward Derating Curve 12 10 8.0 6.0 Amps 4.0 2.0 Single Phase, Half Wave 60Hz Resistive or Inductiv 0 <mark></mark> 120 140 160 180

> Average Forward Rectified Current - Amperes versus Junction Temperature -°C

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



Junction Capacitance - pF versus Reverse Voltage - Volts



60 80 100

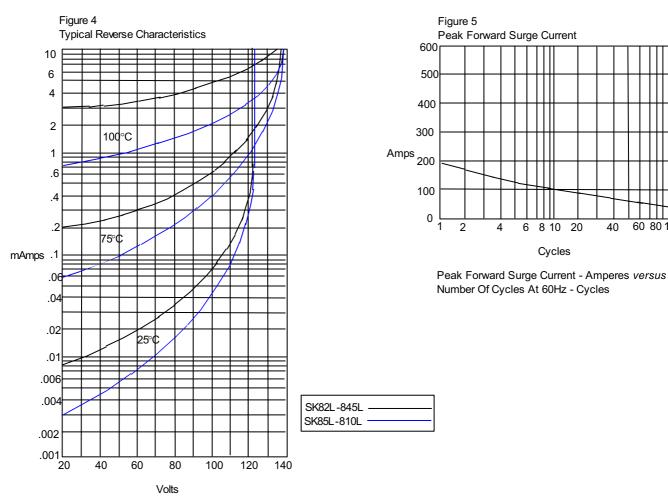
40

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8 10 20

Cycles



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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