Micro Commercial Components
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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

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

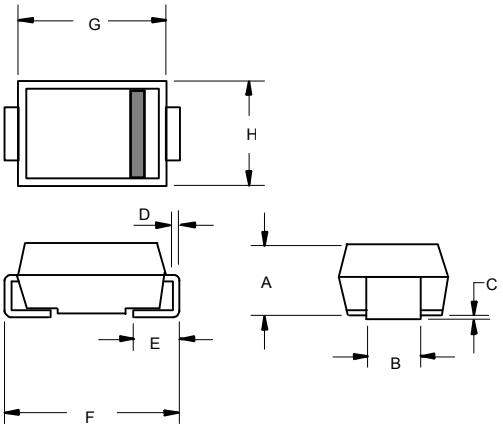
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK82L	SK82	20V	14V	20V
SK83L	SK83	30V	21V	30V
SK835L	SK835	35V	24.5V	35V
SK84L	SK84	40V	28V	40V
SK845L	SK845	45V	31.5V	45V
SK86L	SK86	60V	42V	60V
SK88L	SK88	80V	56V	80V
SK810L	SK810	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	C_J	400pF	Measured at 1.0MHz, V_R=4.0V

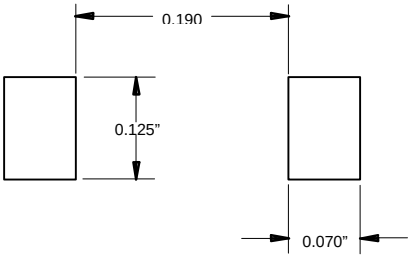
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

DO-214AB (SMC) (LEAD FRAME)



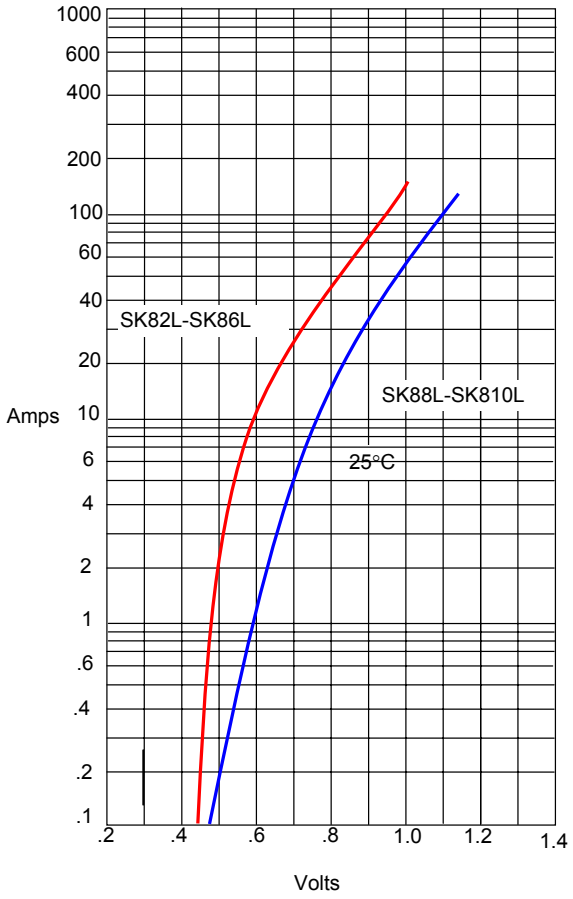
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.079	.103	2.00	2.62	
B	.108	.128	2.75	3.25	
C	.002	.008	0.051	0.203	
D	.006	.012	0.152	0.305	
E	.030	.050	0.76	1.27	
F	.305	.320	7.75	8.13	
G	.260	.280	6.60	7.11	
H	.220	.245	5.59	6.22	

SUGGESTED SOLDER PAD LAYOUT



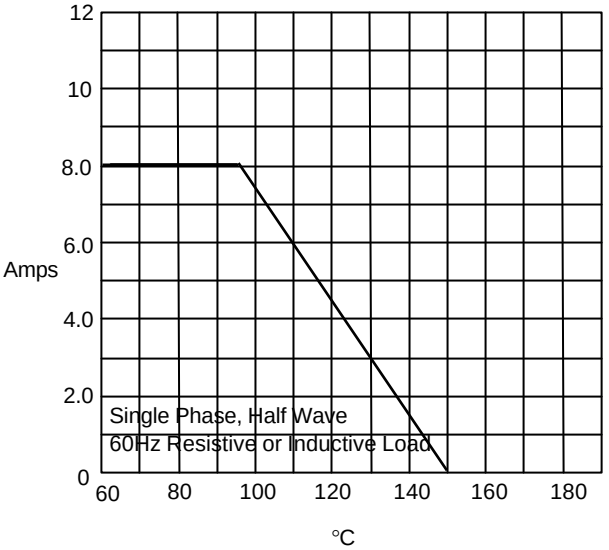
SK82L thru SK810L

Figure 1
Typical Forward Characteristics



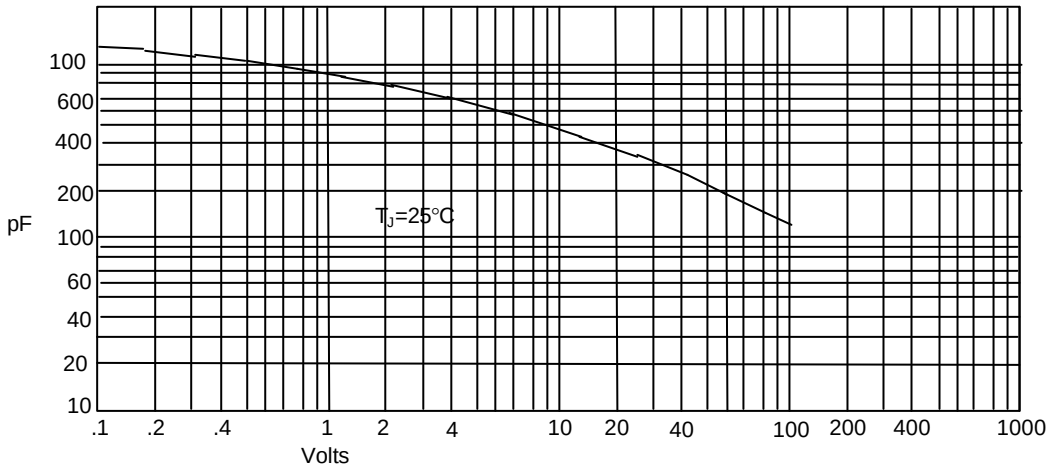
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



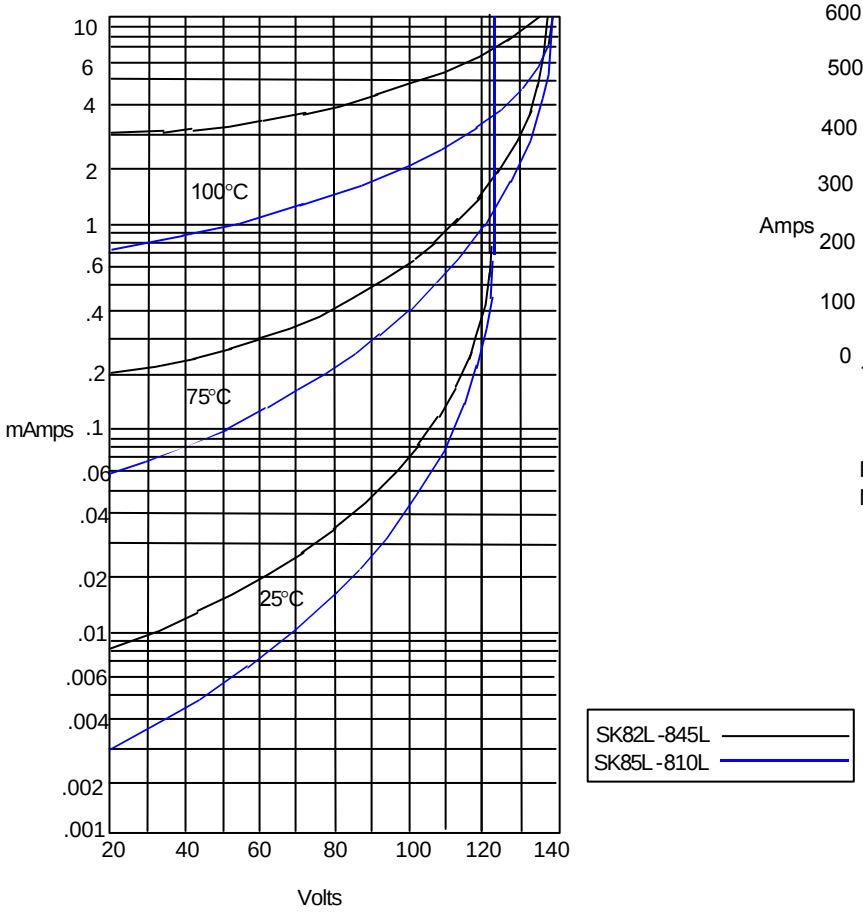
Average Forward Rectified Current - Amperes*versus*
Junction Temperature -°C

Figure 3
Junction Capacitance



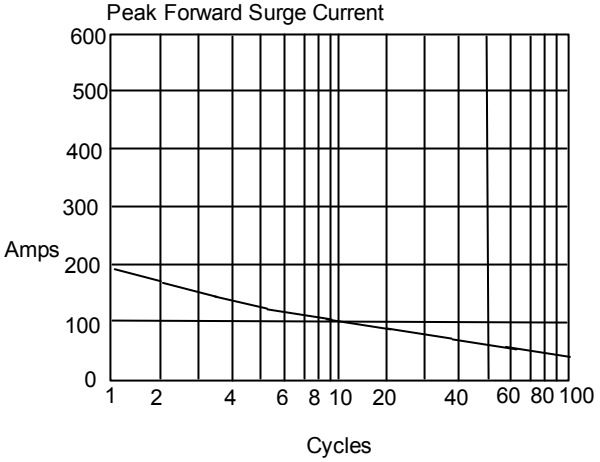
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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

Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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