

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SK82 THRU SK810

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- High Current Capability With Low Forward Voltage
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings

- Operating & Storage Temperature: -55°C to +125°C
- Maximum Junction Temperature: 150°C
- Typical Thermal Resistance: 18°C/W Junction To Lead

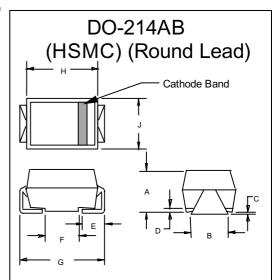
MCC		Maximum	Maximum	Maximum
Part	Device	Recurrent	RMS	DC
Number	Marking	Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK82	SK82	20V	14V	20V
SK83	SK83	30V	21V	30V
SK84	SK84	40V	28V	40V
SK845	SK845	45V	31.5V	45V
SK85	SK85	50V	35V	50V
SK86	SK86	60V	42V	60V
SK88	SK88	80V	56V	80V
SK810	SK810	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

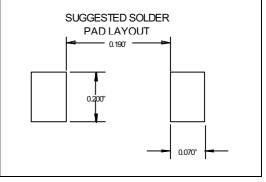
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Average Forward	I _{F(AV)}	8.0A	T _L = 95°C
Current			
Peak Forward Surge	I _{FSM}	200A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
SK82-86	V_{F}	.65V	$I_{FM} = 8.0A;$
SK88-810		.85V	T _J = 25°C*
Maximum DC			
Reverse Current At	I_R	1mA	T _J = 25°C
Rated DC Blocking		20mA	T _J = 100°C
Voltage			
Typical Junction	СJ	400pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

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

8 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.200	.214	5.08	5.43	
В	.177	.203	4.70	5.30	
С	.002	.005	.05	.13	
D	_	.02	-	.51	
E	.047	.056	1.20	1.42	
F	.168	.179	4.27	4.55	
G	.309	.322	7.85	8.18	
Н	.239	.243	6.08	6.18	
J	.234	.240	5.95	6.10	



SK82 thru SK810



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Figure 1 Typical Forward Characteristics

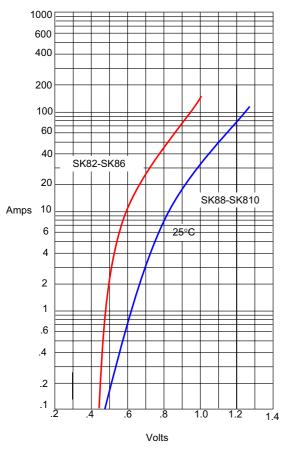
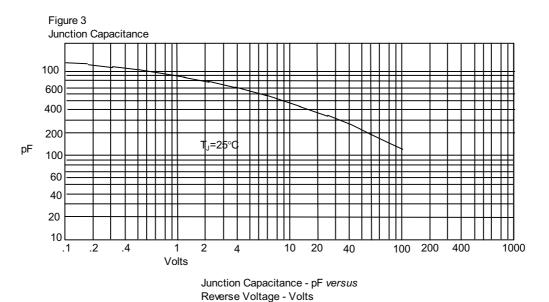


Figure 2 Forward Derating Curve 12 10 8.0 6.0 Amps 4.0 2.0 Single Phase, Half Wa 60Hz Resistive or 0 | 100 140 160 180 °C

Average Forward Rectified Current - Amperes versus Lead Temperature - °C

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



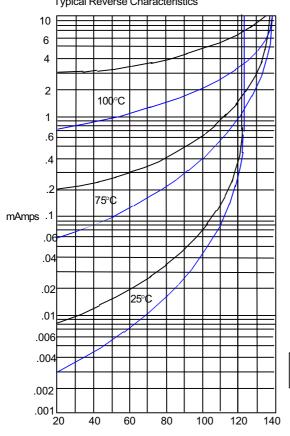
www.mccsemi.com

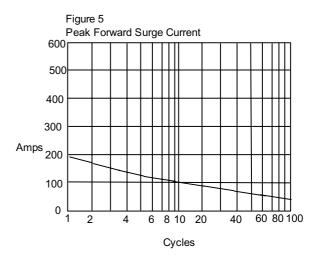
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Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

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

SK82-SK845-SK85-SK810-



Ordering Information

	Device	Packing
(Par	t Number)-TP	Tape&Reel1.5Kpcs/Reel

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