



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SK52A-L THRU SK510A-L

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Current Capability With Low Forward Voltage
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place
- 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; 16°C/W Junction To Lead

MCC	Device	Maximum	Maximum	Maximum
Part	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK52A-L	SK52A	20V	14V	20V
SK53A-L	SK53A	30V	21V	30V
SK54A-L	SK54A	40V	28V	40V
SK55A-L	SK55A	50V	35V	50V
SK56A-L	SK56A	60V	42V	60V
SK58A-L	SK58A	80V	56V	80V
SK510A-L	SK510A	100V	70V	100V

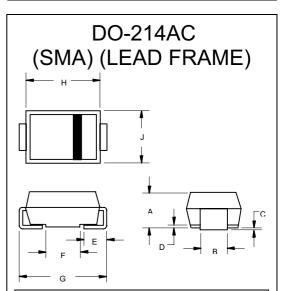
Electrical Characteristics @ 25°C Unless Otherwise Specified

			and the opening
Average Forward Current	$I_{F(AV)}$	5.0A	T _A = 120°C
Peak Forward Surge	I _{FSM}	100A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
SK52A-54A	V_{F}	.55V	$I_{FM} = 5.0A;$
SK55A-56A		.75V	T _J = 25°C*
SK58A-510A		.85V	
Maximum DC			
Reverse Current At	I_R	1mA	T _{.1} = 25°C
Rated DC Blocking		20mA	T _J = 100°C
Voltage			.,
Typical Junction	С	200pF	Measured at
Capacitance		,	1.0MHz, V _R =4.0V

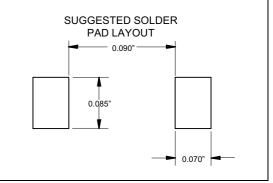
^{*}Pulse test: Pulse width 200 usec, Duty cycle 2%

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

5 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.079	.096	2.00	2.44		
В	.050	.064	1.27	1.63		
С	.002	.008	.05	.20		
D	-	.02		.51		
Е	.030	.060	.76	1.52		
F	.065	.091	1.65	2.32		
G	.189	.220	4.80	5.59		
Н	.157	.181	4.00	4.60		
J	.090	.115	2.25	2.92		



SK52A-L thru SK510A-L



Figure 1
Typical Forward Characteristics

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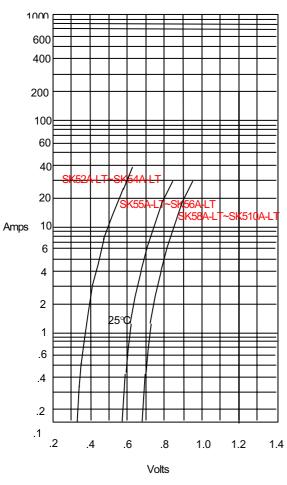
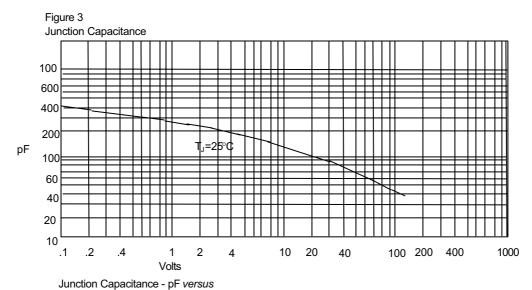


Figure 2 Forward Derating Curve 5 4 3 Amps 2 Single Phase, Half Wave 60Hz Resistive or Inductive Load ⁰60 80 100 120 140 160 180 °С

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

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

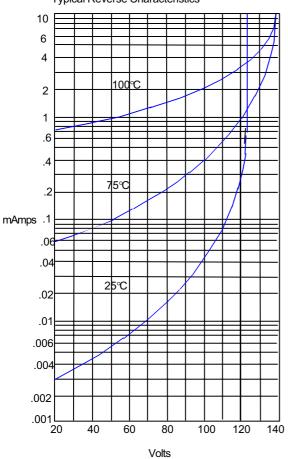


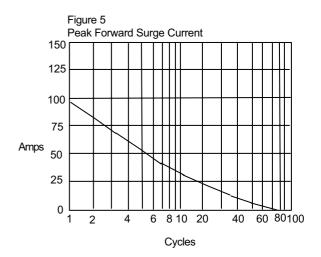
Reverse Voltage - Volts

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Figure 4
Typical Reverse Characteristics





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



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Ordering Information:

Device	Packing
SK52A-LTP~SK510A-LTP	Tape&Reel: 5Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. SK52A-LTP-HF~SK510A-LTP-HF

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