

Micro Commercial Components



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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

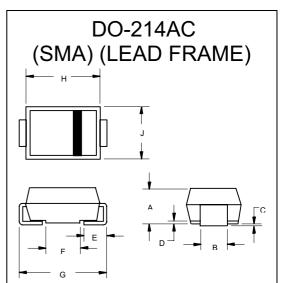
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	5.0A	T _A = 120°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK52A-54A SK55A-56A SK58A-510A	VF	.55V .75V .85V	I _{FM} = 5.0A; T _J = 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	200pF	Measured at 1.0MHz, V _R =4.0V

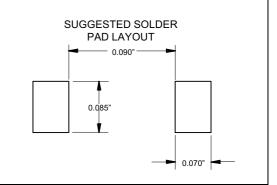
*Pulse test: Pulse width 200 μsec, Duty cycle 2% Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

SK52A-L THRU SK510A-L

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		
E	.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		

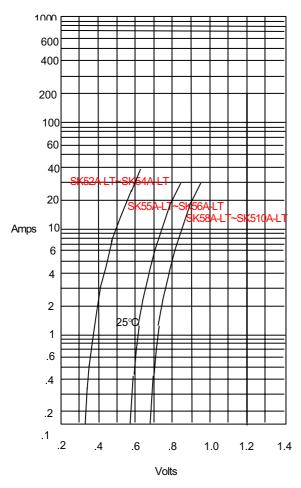


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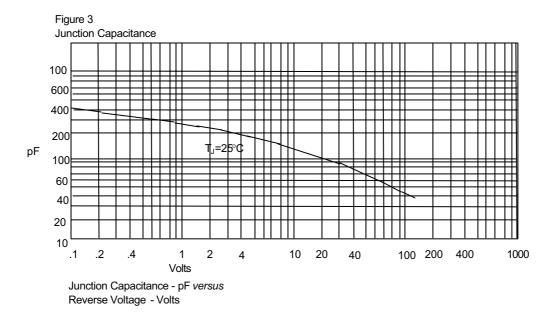
SK52A-L thru SK510A-L

Figure 1

Typical Forward Characteristics

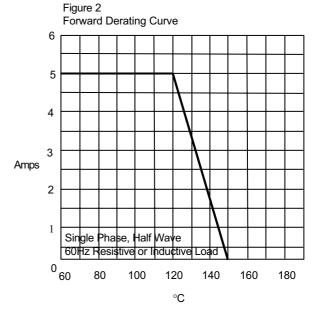


Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



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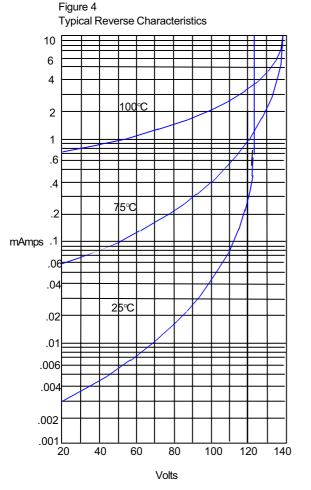


Average Forward Rectified Current - Amperes <code>versus</code> Ambient Temperature - $^{\circ}\text{C}$

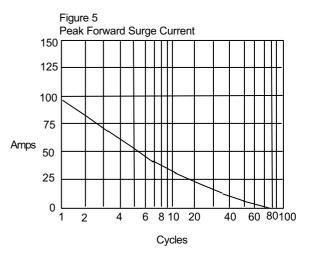
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SK52A-L thru SK510A-L





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



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

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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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