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SK52B-L THRU SK520B-L

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- High Current Capability
- For Surface Mount Applications
- Higher Temp Soldering: 260°C for 10 Seconds At Terminals
- Available on Tape and Reel
- 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
- Maximum Thermal Resistance; 16°C/W Junction To Lead
 55°C/W Junction To Ambient

MCC	Device	Maximum Maximu		Maximum
Catalog	Marking	Reccurrent RMS		DC
Number		Peak Reverse Voltage		Blocking
		Voltage		Voltage
SK52B-L	SK52B	20V	14V	20V
SK53B-L	SK53B	30V	21V	30V
SK54B-L	SK54B	40V	28V	40V
SK55B-L	SK55B	50V	35V	50V
SK56B-L	SK56B	60V	42V	60V
SK58B-L	SK58B	80V	56V	80V
SK510B-L	SK510B	100V	70V	100V
SK5150B-L	SK5150	150V	105V	150V
SK520B-L	SK520B	200V	140V	200V

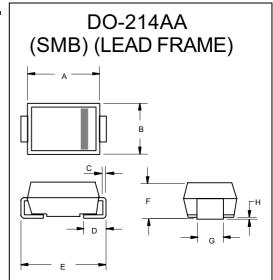
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	5.0A	Tc = 120°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK52B-L~54B-L SK55B-L~56B-L SK58B-L~510B-L SK5150B-L SK520B-L	V_{F}	.55V .75V .85V .87V .90V	I _{FM} = 5.0A; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1.0mA 20mA	T _J = 25°C T _J = 100°C
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V _R =4.0V

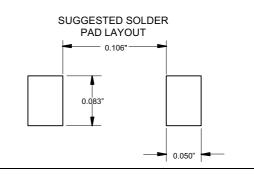
^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

5 Amp Schottky Rectifier 20 to 200 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.160	.185	4.06	4.70		
В	.130	.155	3.30	3.94		
O	.006	.012	0.15	0.31		
D	.030	.060	0.76	1.52		
П	.200	.220	5.08	5.59		
F	.079	.096	2.00	2.44		
G	.075	.087	1.91	2.21		
Н	.002	.008	0.05	0.203		



SK52B-L thru SK520B-L



Figure 1
Typical Forward Characteristics



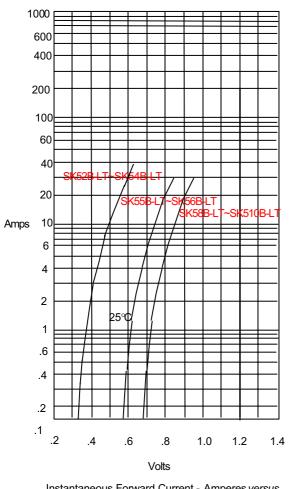


Figure 2 Forward Derating Curve 5 4 3 Amps 2 Single Phase, Half Wave 60Hz Resistive or Inductive 0 60 80 100 120 140 160 180 °С

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

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

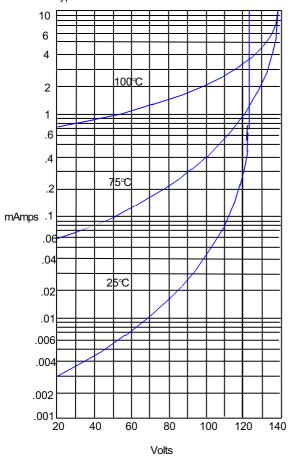
Reverse Voltage - Volts

Figure 3 Junction Capacitance 100 600 400 200 рF 100 60 40 20 10 .2 2 .4 20 40 100 200 400 1000 Volts Junction Capacitance - pF versus

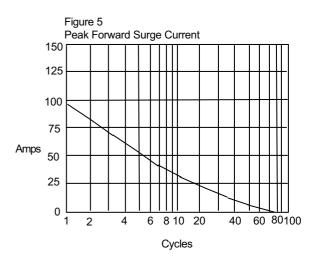
SK52B-L thru SK520B-L



Figure 4
Typical Reverse Characteristics

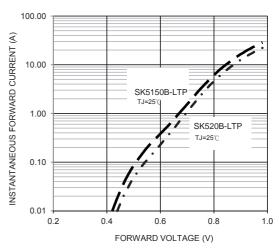


Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts



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

FIG. 6-TYPICAL FORWARD CHARACTERISTICS





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Ordering Information:

Device	Packing	
SK52B-LTP~SK520B-LTP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. SK52B-LTP-HF~SK520B-LTP-HF

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