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SK52B-LT THRU SK510B-LT

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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 16^oC/W Junction To Lead 55°C/W Junction To Ambient

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK52B-LT	SK52B	20V	14V	20V
SK53B-LT	SK53B	30V	21V	30V
SK54B-LT	SK54B	40V	28V	40V
SK55B-LT	SK55B	50V	35V	50V
SK56B-LT	SK56B	60V	42V	60V
SK58B-LT	SK58B	80V	56V	80V
SK510B-LT	SK510B	100V	70V	100V

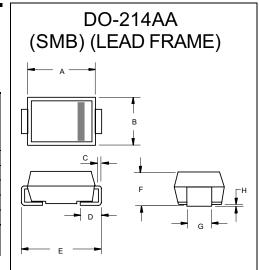
Electrical Characteristics @ 25°C Unless Otherwise Specified

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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 SK52B-LT~54B-LT SK55B-LT~56B-LT SK58B-LT~510B-LT	V _F	.55V .75V .85V	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		

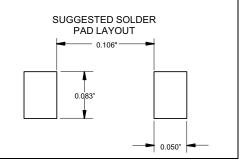
^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

5 Amp Schottky Rectifier 20 to 100 Volts



DIMENSIONS						
	INCHES		MM			
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		
Е	.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		







Typical Forward Characteristics



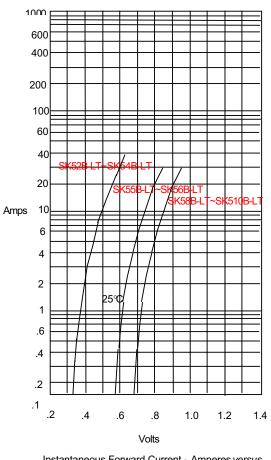
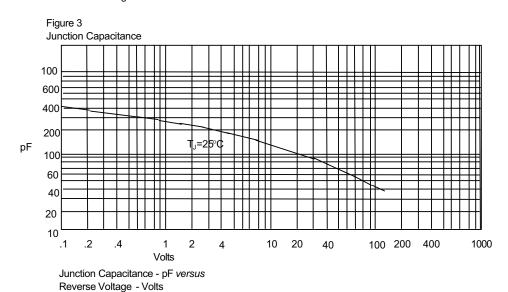


Figure 2 Forward Derating Curve 5 Amps 2 Single Phase, Half Wave 60Hz Resistive or Inductive 0 60 80 100 120 140 160 180 °C

> Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

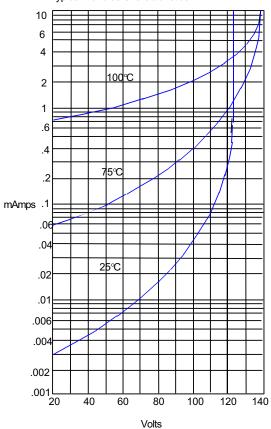
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

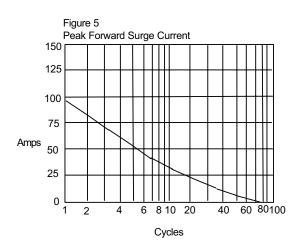


SK52B-LT thru SK510B-LT



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



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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