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SK52L THRU SK510L

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

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

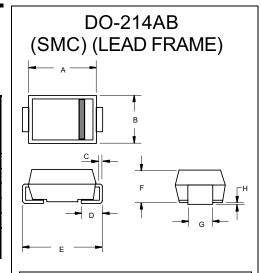
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK52L	SK52	20V	14V	20V
SK53L	SK53	30V	21V	30V
SK54L	SK54	40V	28V	40V
SK55L	SK55	50V	35V	50V
SK56L	SK56	60V	42V	60V
SK58L	SK58	80V	56V	80V
SK510L	SK510	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

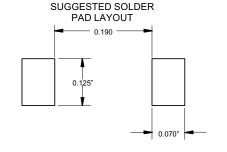
Average Forward Current	I _{F(AV)}	5.0A	T _A = 120°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK52L~54L SK55L~56L SK58L~510L	V_{F}	.55V .75V .85V	I _{FM} = 5.0A; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1.0mA 20mA	T _J = 25°C T _J = 100°C
Typical Junction Capacitance	C	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



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.260	.280	6.60	7.11	
В	.220	.245	5.59	6.22	
С	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.305	.320	7.75	8.13	
F	.079	.103	2.00	2.62	
G	.108	.128	2.75	3.25	
Н	.002	.008	0.050	0.203	
			D SOLDE	_	

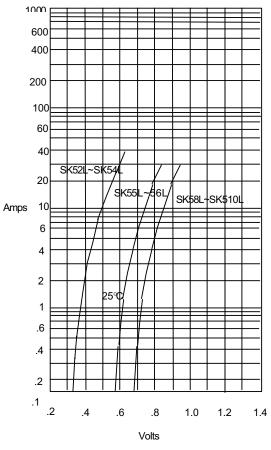


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Average Forward Rectified Current - Amperes versus

Ambient Temperature - °C

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

Figure 3 Junction Capacitance 100 600 400 200 рF 100 60 40 20 10 .2 20 40 100 200 1000

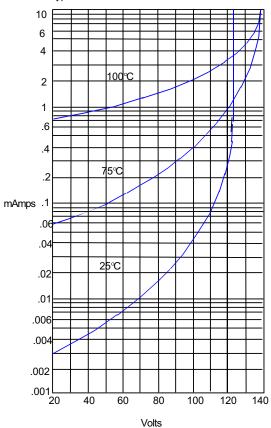
Volts

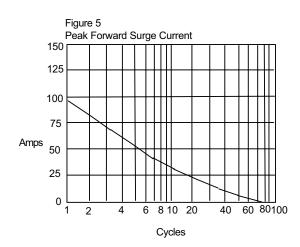
Junction Capacitance - pF *versus* Reverse Voltage - Volts

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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



Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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