EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

SK52B-LT THRU SK510B-LT

5 Amp Schottky Rectifier 20 to 100 Volts

Features

- High Current Capability
- For Surface Mount Applications
- Higher Temp Soldering : 260°C for 10 Seconds At Terminals
- Available on Tape and Reel

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

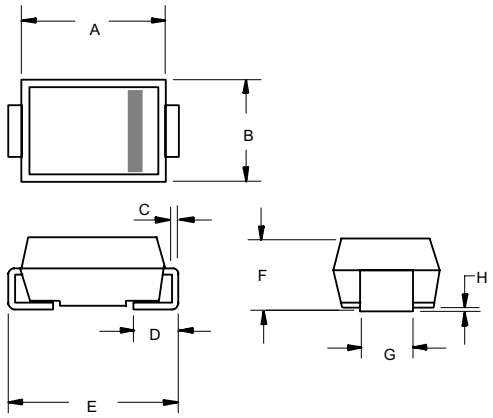
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK52B-LT	SK52B	20V	14V	20V
SK53B-LT	SK53B	30V	21V	30V
SK54B-LT	SK54B	40V	28V	40V
SK55B-LT	SK55B	50V	35V	50V
SK56B-LT	SK56B	60V	42V	60V
SK58B-LT	SK58B	80V	56V	80V
SK510B-LT	SK510B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

Electrical Characteristics @ 25°C Unless Otherwise Specified

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	C_J	200pF	Measured at 1.0MHz, V_R=4.0V

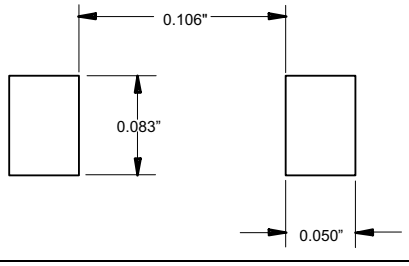
*Pulse test: Pulse width 200 μsec, Duty cycle 2%

DO-214AA
(SMB) (LEAD FRAME)



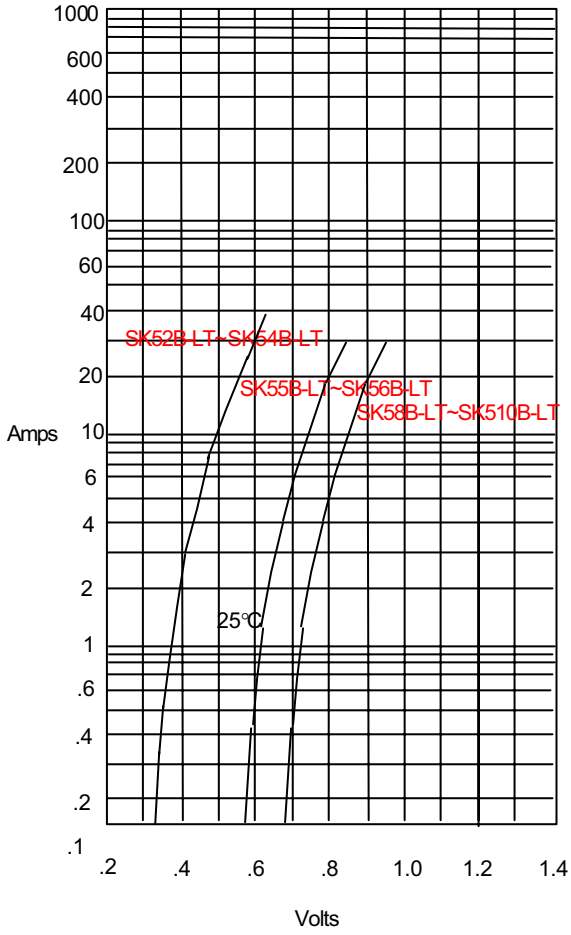
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.160	.185	4.06	4.70	
B	.130	.155	3.30	3.94	
C	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.200	.220	5.08	5.59	
F	.079	.096	2.00	2.44	
G	.075	.087	1.91	2.21	
H	.002	.008	0.05	0.203	

SUGGESTED SOLDER PAD LAYOUT



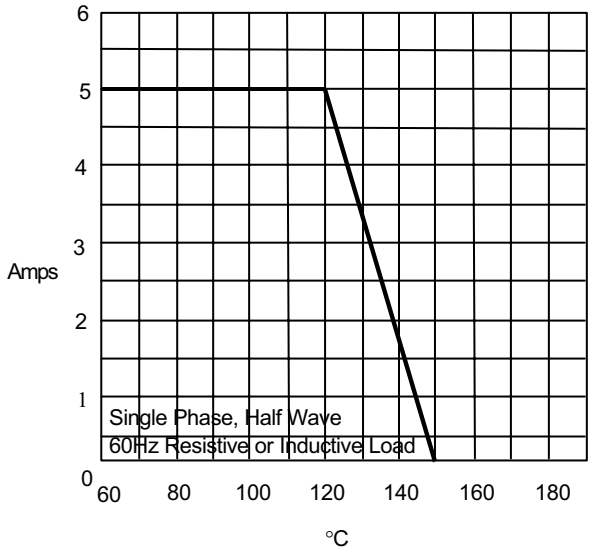
SK52B-LT thru SK510B-LT

Figure 1
Typical Forward Characteristics



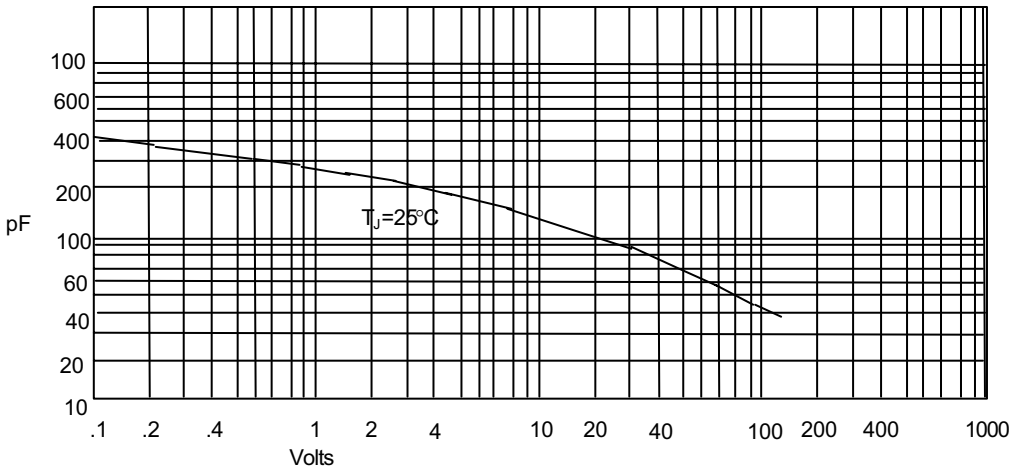
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

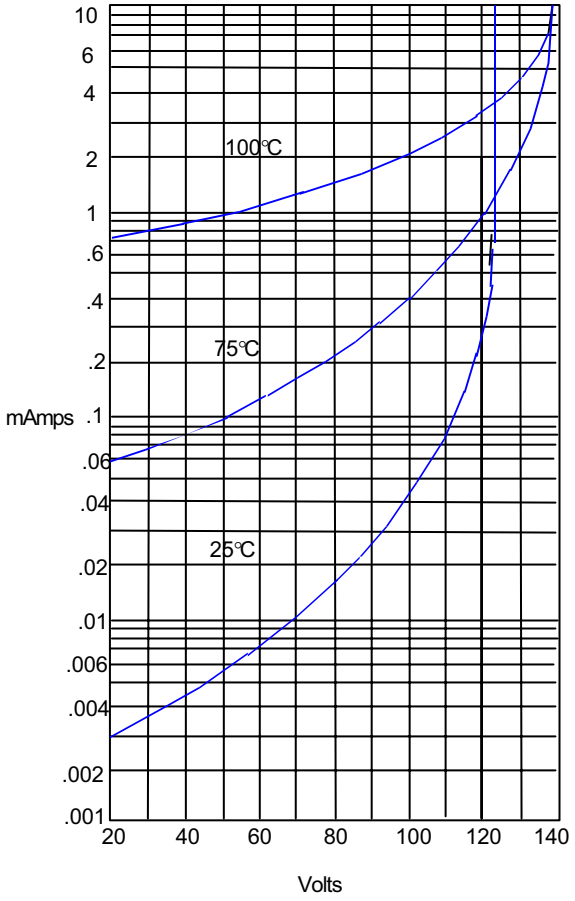
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

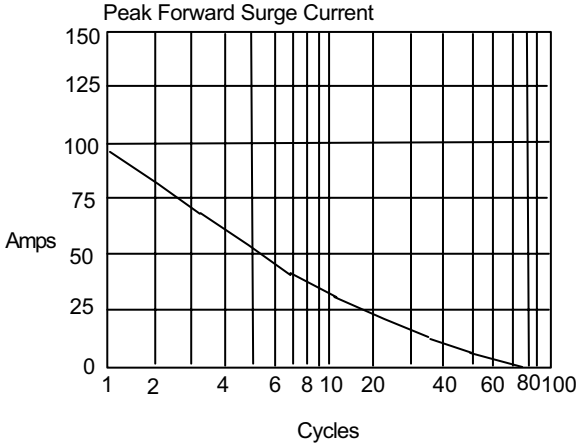
SK52B-LT thru SK510B-LT

Figure 4
Typical Reverse Characteristics



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

Figure 5
Peak Forward Surge Current



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

EDCON®
COMPONENTS
A MEMBER OF EDCON-GROUP

IMPORTANT NOTICE

Edcon-Components reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . Edcon-Components does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *EdconComponents* and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Edcon-Components* are not intended for use in Medical, Aerospace or Military Applications.