



Micro Commercial Components
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SK52-LT THRU SK510-LT

Features

- High Current Capability
- For Surface Mount Applications
- Higher Temp Soldering : 250°C for 10 Seconds At Terminals
- Available on Tape and Reel

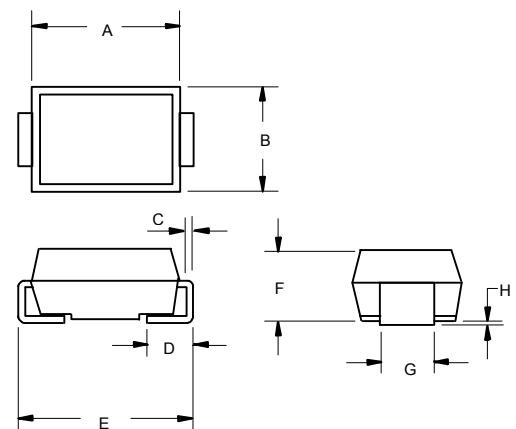
5 Amp Schottky Rectifier 20 to 100 Volts

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

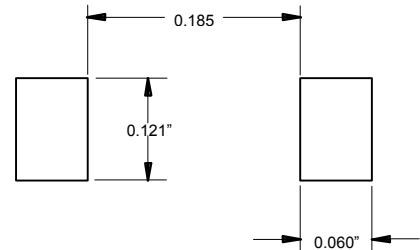
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK52-LT	SK52	20V	14V	20V
SK53-LT	SK53	30V	21V	30V
SK54-LT	SK54	40V	28V	40V
SK55-LT	SK55	50V	35V	50V
SK56-LT	SK56	60V	42V	60V
SK58-LT	SK58	80V	56V	80V
SK510-LT	SK510	100V	70V	100V

DO-214AB (SMCJ) (LEAD FRAME)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.260	.280	6.60	7.11	
B	.220	.245	5.59	6.22	
C	.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	
H	.002	.008	0.050	0.203	

SUGGESTED SOLDER PAD LAYOUT



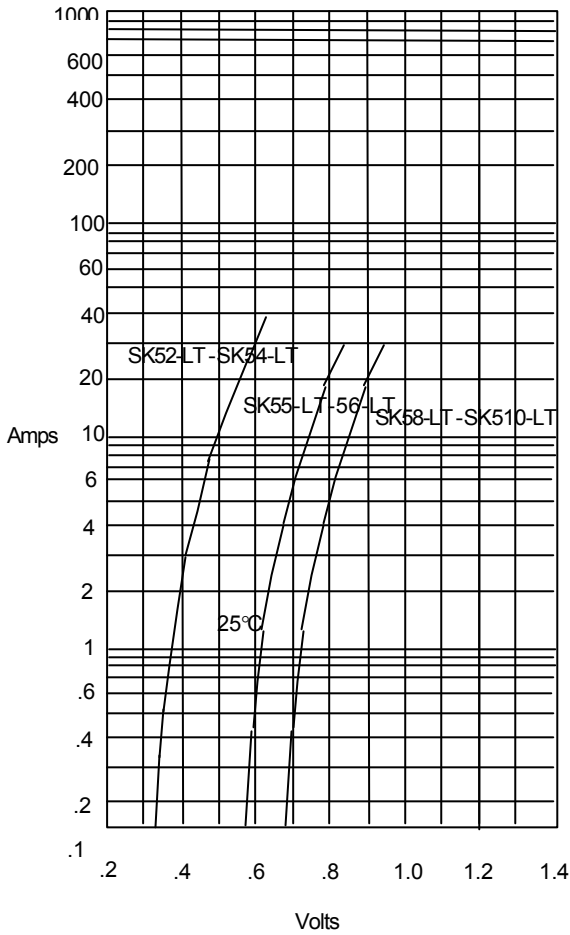
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5.0A	$T_A = 120^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK52-LT-54-LT SK55-LT-56-LT SK58-LT-510-LT	V_F	.55V .75V .85V	$I_{FM} = 5.0A;$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0mA 20mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	C_J	200pF	Measured at 1.0MHz, $V_R=4.0V$

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

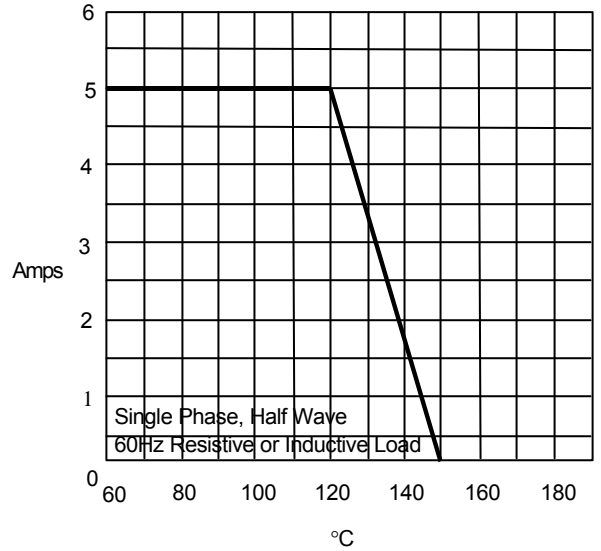
SK52-LT thru SK510-LT

Figure 1
Typical Forward Characteristics



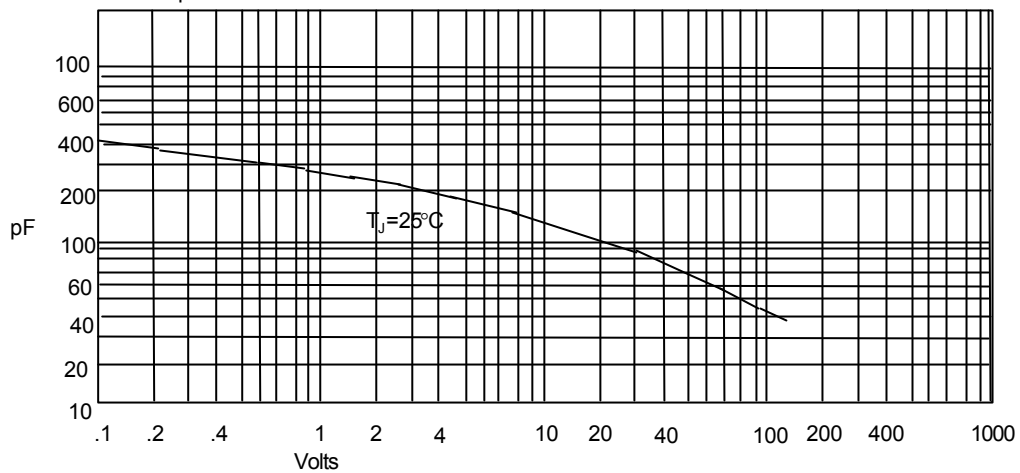
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Junction Capacitance

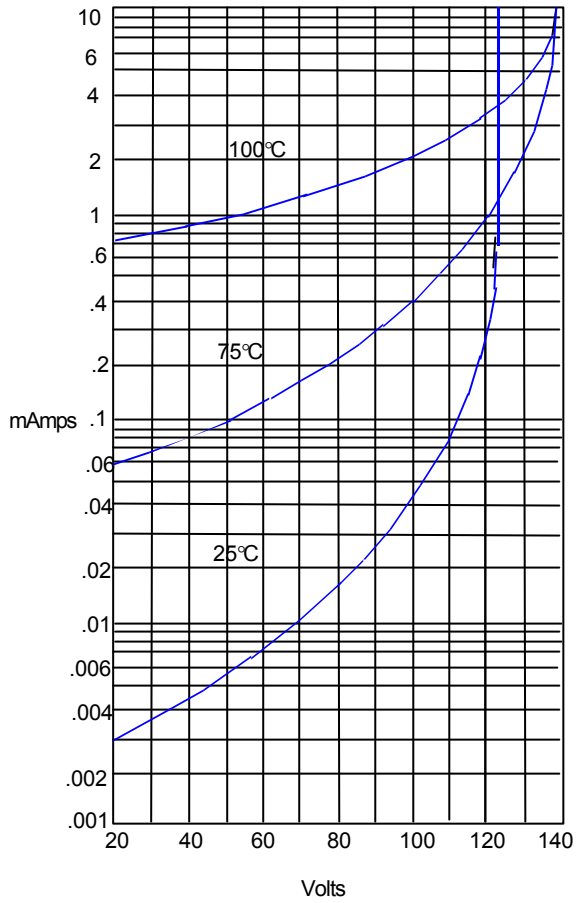


Junction Capacitance - pF versus
Reverse Voltage - Volts

SK52-LT thru SK510-LT

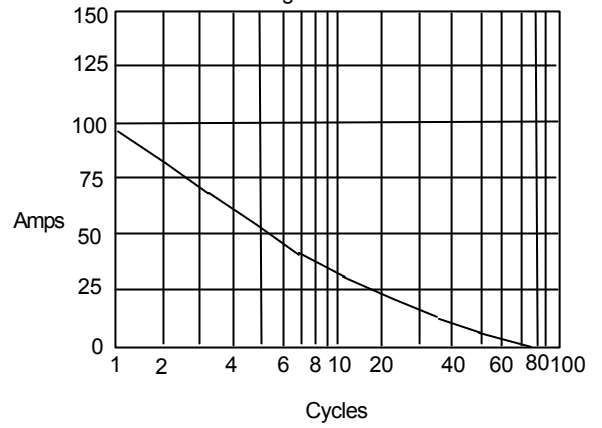


Figure 4
Typical Reverse Characteristics



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