

**SK12-L
THRU
SK110-L**

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Reverse Energy Tested and Guard Ring Protection
- High Current Capability and Low Forward Voltage
- Extremely Low Thermal Resistance
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK12-L	SK12	20V	14V	20V
SK13-L	SK13	30V	21V	30V
SK14-L	SK14	40V	28V	40V
SK15-L	SK15	50V	35V	50V
SK16-L	SK16	60V	42V	60V
SK18-L	SK18	80V	56V	80V
SK110-L	SK110	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

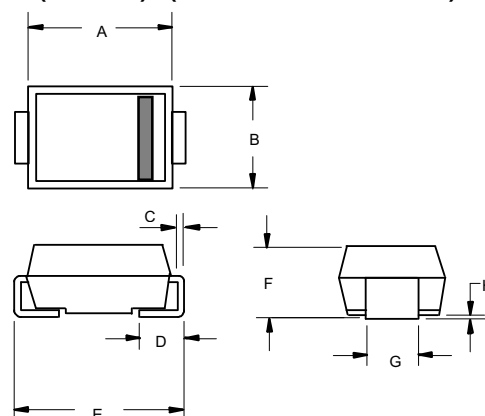
Average Forward Current	$I_{F(AV)}$	1.0A	$T_L = 75^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.50V .72V .85V	$I_{FM} = 1.0A;$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	.5mA 20mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	C_J	110pF 30pF	Measured at 1.0MHz, $V_R=4.0V$

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

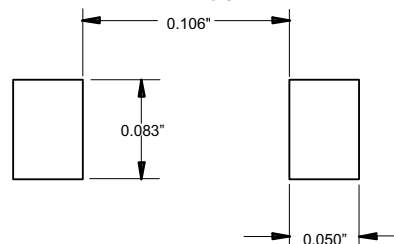
**1 Amp Schottky
Rectifier
20 to 100 Volts**

**DO-214AA
(SMB) (LEAD FRAME)**



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

**SUGGESTED SOLDER
PAD LAYOUT**



SK12-L thru SK110-L

Rating and Characteristic Curves

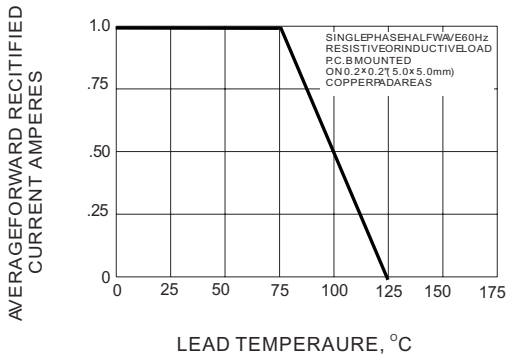


Figure 1. -- Forward current derating curve

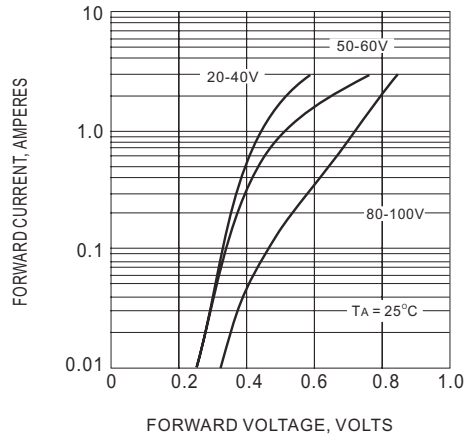


Figure 2. -- Typical Instantaneous Forward Characteristic

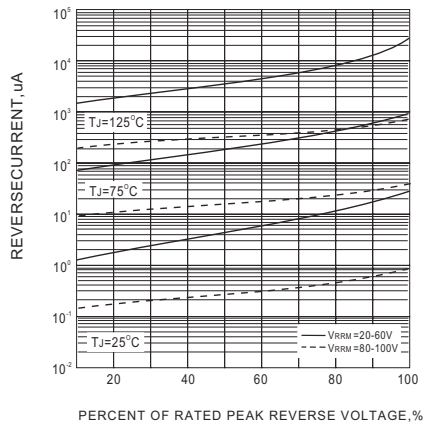


Figure 3. -- Typical Reverse Characteristics

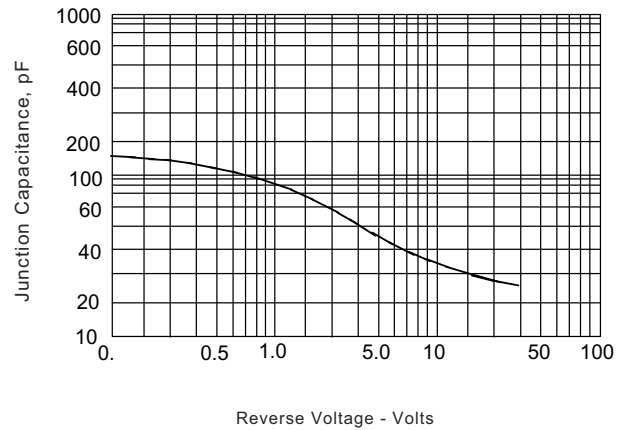


Figure 4. -- Typical Junction Capacitance



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Ordering Information :

Device	Packing
SK12-LTP~ SK110-LTP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. SK12-LTP-HF~SK110-LTP-HF

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