



Micro Commercial Components
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SS12-LT THRU SS110-LT

Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Reverse Energy Tested
- High Current Capability
- Extremely Low Thermal Resistance

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 35°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS12-LT	SS12	20V	14V	20V
SS13-LT	SS13	30V	21V	30V
SS14-LT	SS14	40V	28V	40V
SS15-LT	SS15	50V	35V	50V
SS16-LT	SS16	60V	42V	60V
SS18-LT	SS18	80V	56V	80V
SS110-LT	SS110	100V	70V	100V

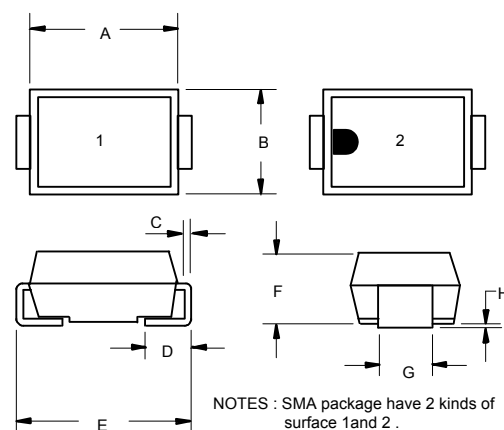
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_J = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SS12~14 SS15~16 SS18~110	V_F	.50V .70V .85V	$I_{FM} = 1.0A$; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5mA 20mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Typical Junction Capacitance SS12~16 SS18~110	C_J	110pF 20pF	Measured at 1.0MHz, $V_R = 4.0V$

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

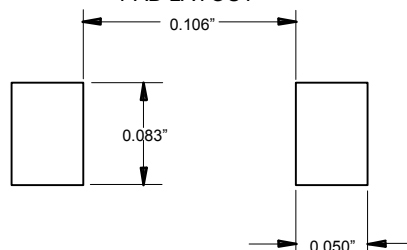
1 Amp Schottky Rectifier 20 to 100 Volts

DO-214AC (SMAJ) (LEAD FRAME)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.157	.181	3.99	4.60	
B	.090	.115	2.29	2.92	
C	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.189	.220	4.80	5.59	
F	.078	.103	1.98	2.62	
G	.050	.064	1.27	1.63	
H	.002	.008	0.05	0.203	

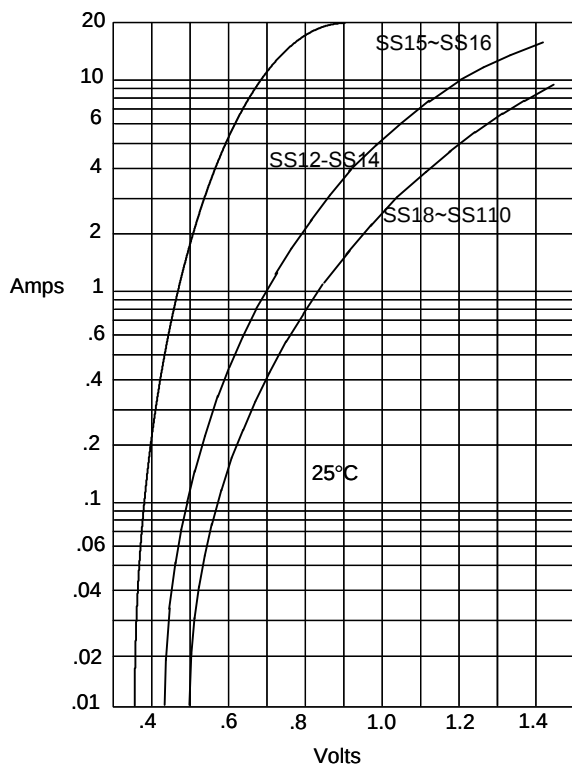
SUGGESTED SOLDER PAD LAYOUT



SS12-LT thru SS110-LT

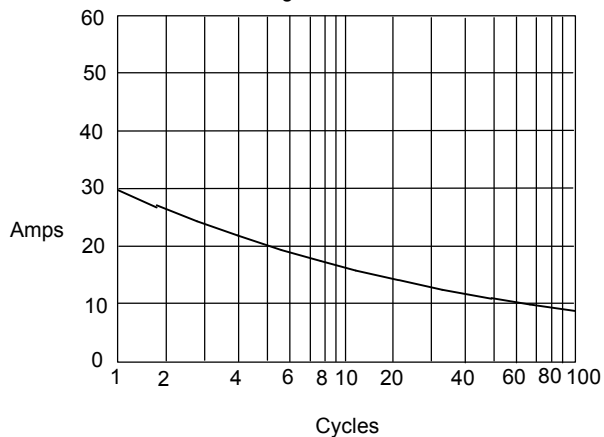


Figure 1
Typical Forward Characteristics



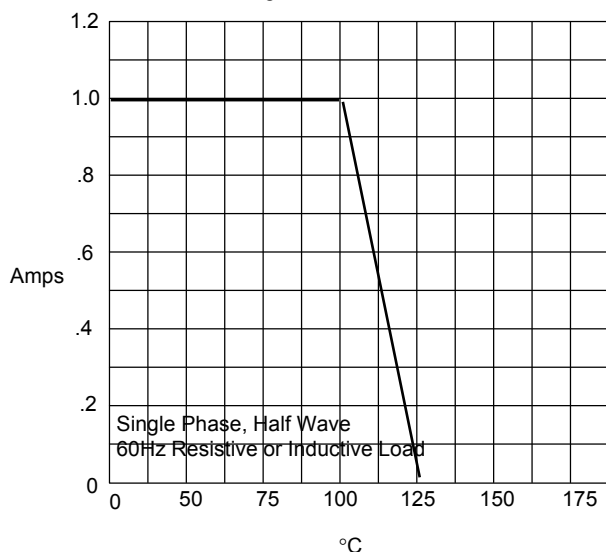
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 3
Peak Forward Surge Current



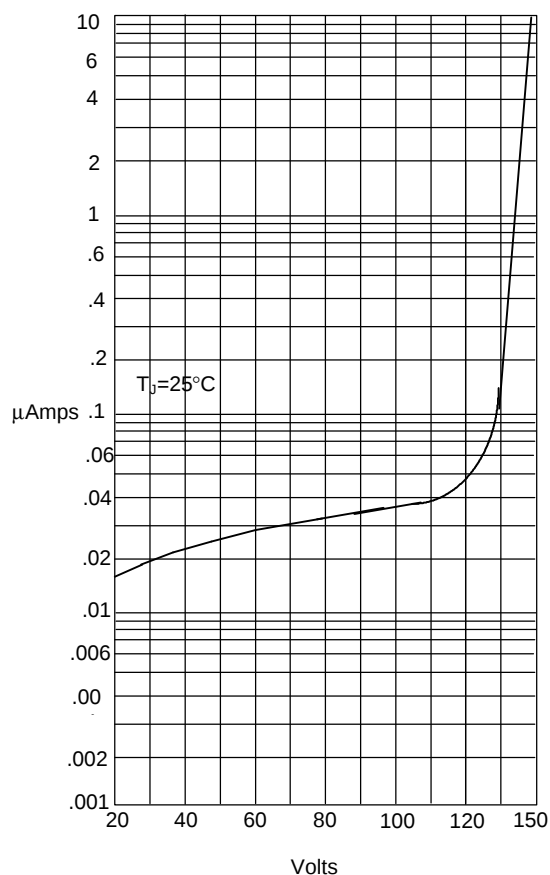
Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Figure 2
Forward Derating Curve



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

Figure 4
Typical Reverse Characteristics



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