

# SS12-L THRU SS110-L

## 1 Amp Schottky Rectifier 20 to 100 Volts

### Features

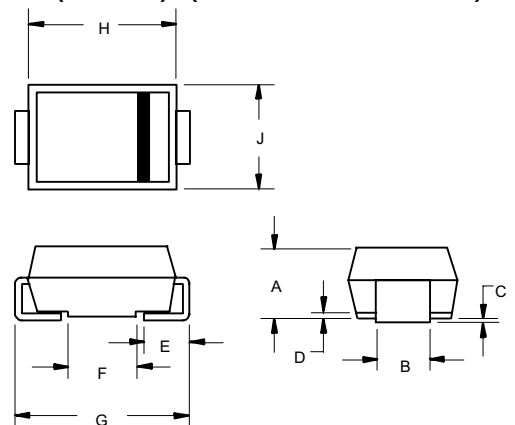
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Low Forward Voltage
- Guard Ring Protection
- High Current Capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 28°C/W Junction To Lead  
 55°C/W Junction To Case  
 88°C/W Junction To Ambient

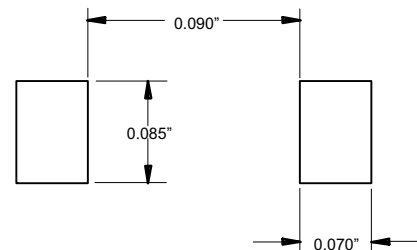
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS12-L	SS12	20V	14V	20V
SS13-L	SS13	30V	21V	30V
SS14-L	SS14	40V	28V	40V
SS15-L	SS15	50V	35V	50V
SS16-L	SS16	60V	42V	60V
SS18-L	SS18	80V	56V	80V
SS110-L	SS110	100V	70V	100V

### DO-214AC (SMA) (LEAD FRAME)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.079	.096	2.00	2.44	
B	.050	.064	1.27	1.63	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
H	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	

### SUGGESTED SOLDER PAD LAYOUT



### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	TL(Fig.1)
Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	0.50V 0.70V 0.85V	$I_{FM} = 1.0A;$ $T_J = 25^\circ C *$
SS12-L~SS14-L			
SS15-L~SS16-L			
SS18-L~SS110-L			
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA 0.1mA 10mA 5.0mA	$T_A = 25^\circ C$ $T_A = 25^\circ C$ $T_A = 100^\circ C$ $T_A = 100^\circ C$
SS12-L~SS16-L			
SS18-L~SS110-L			
SS12-L~SS14-L			
SS15-L~SS110-L			
Typical Junction Capacitance	$C_J$	52pF 45pF 35pF	Measured at 1.0MHz, $V_R=4.0V$
SS12-L~SS14-L			
SS15-L~SS16-L			
SS18-L~SS110-L			
Junction Temperature	$T_J$	-55~+125 C -55~+150 C	
SS12-L~SS14-L			
SS15-L~SS110-L			

\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

# SS12-L thru SS110-L

FIG.1: FORWARD CURRENT DERATING CURVE

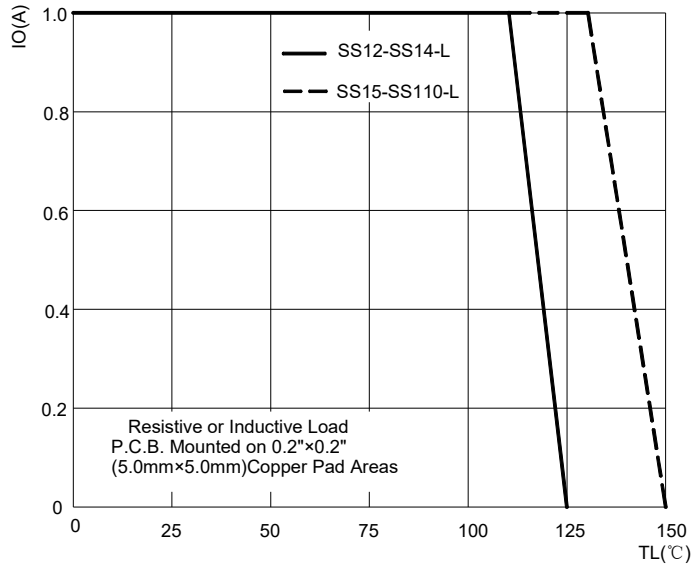


FIG2: Surge Forward Current Capability

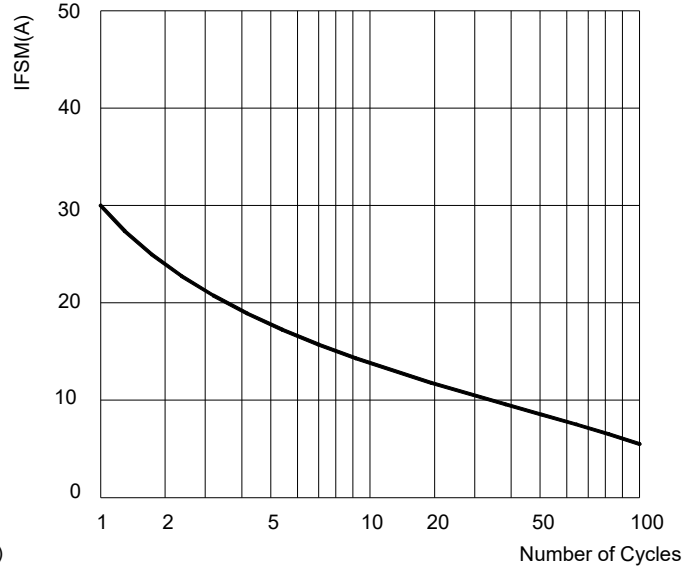


FIG.3: TYPICAL FORWARD CHARACTERISTICS

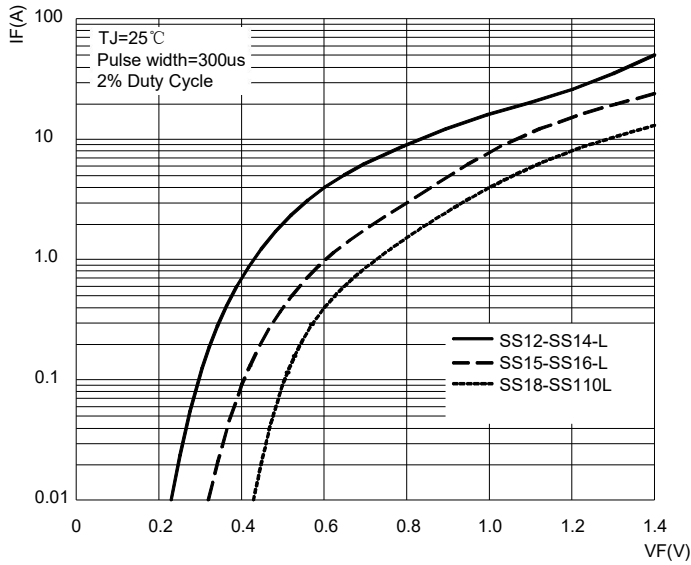
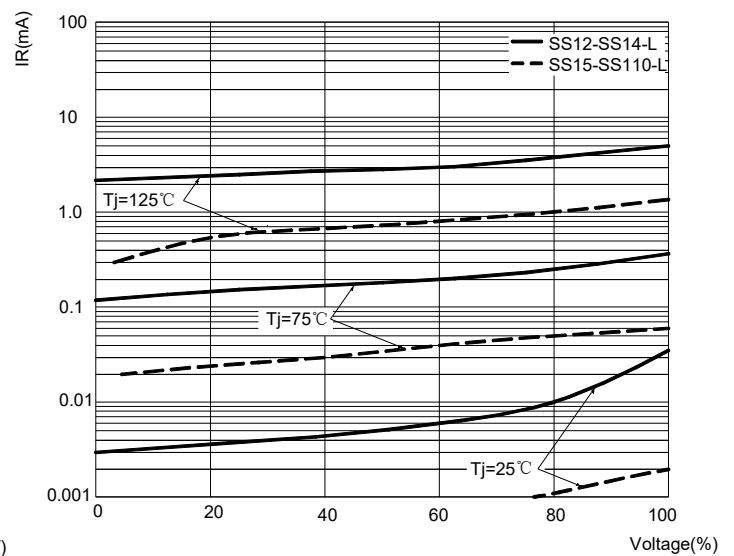


FIG.4: TYPICAL REVERSE CHARACTERISTICS





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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