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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SS12-L THRU SS110-L

## 1 Amp Schottky Rectifier 20 to 100 Volts

### Features

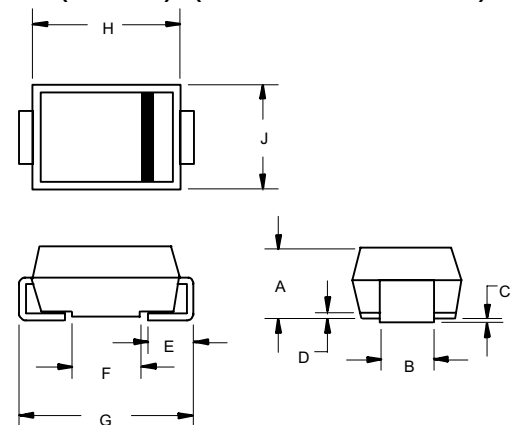
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Low Forward Voltage
- Guard Ring Protection
- High Current Capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity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

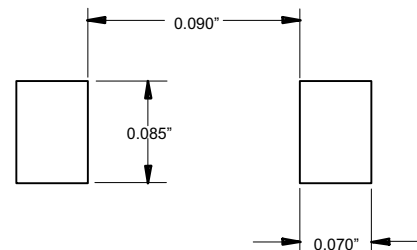


### Electrical Characteristics @ 25°C Unless Otherwise Specified

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			

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



\*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

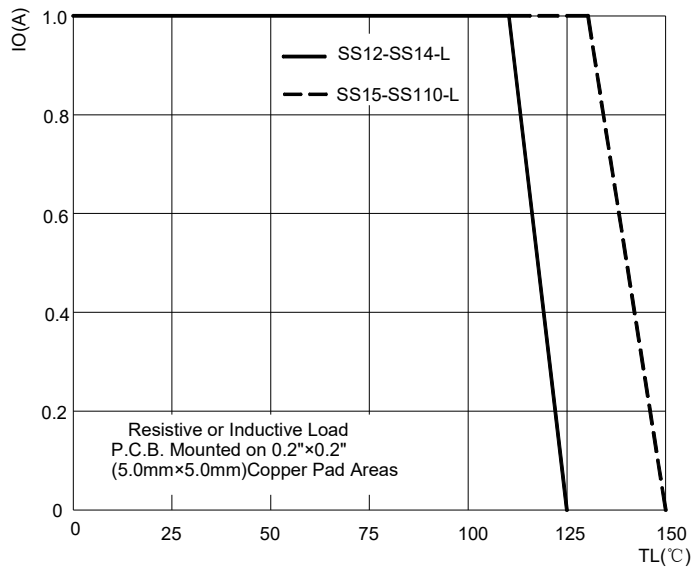


FIG2: Surge Forward Current Capacity

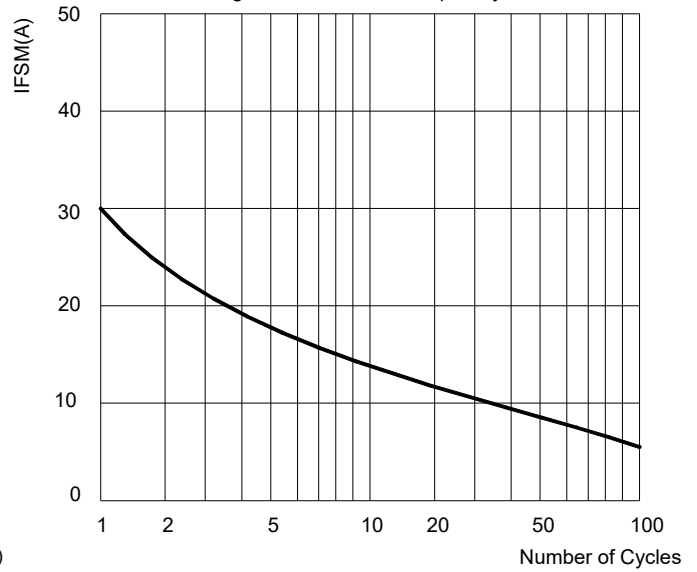


FIG.3: TYPICAL FORWARD CHARACTERISTICS

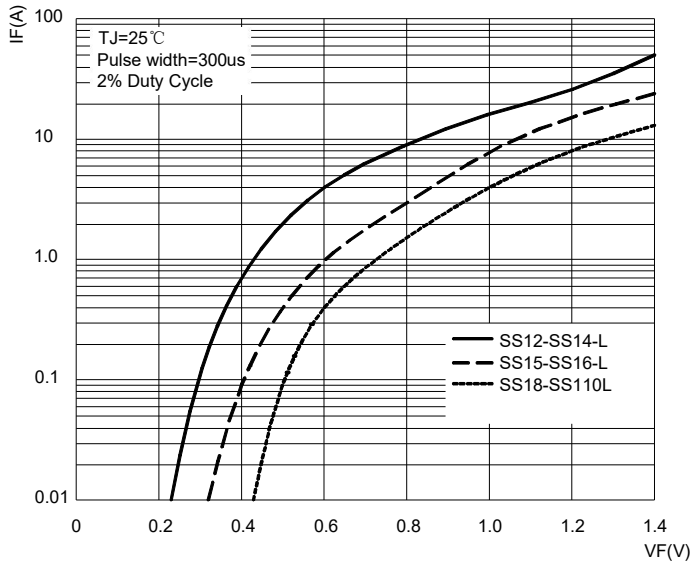
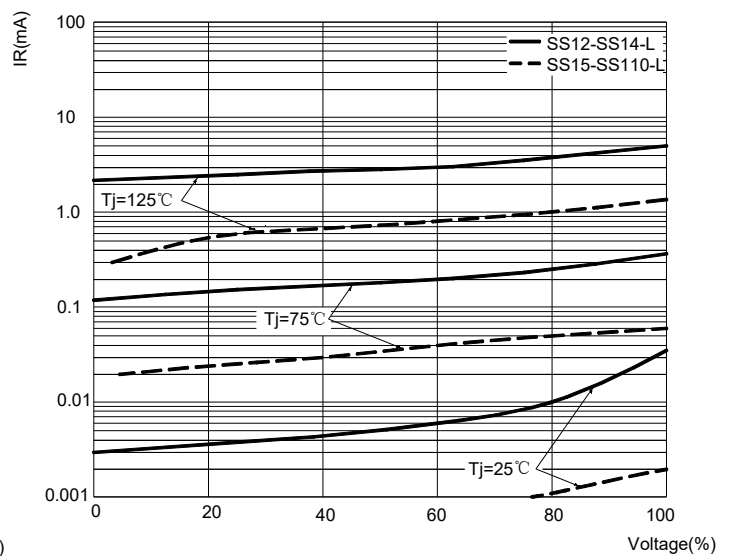


FIG.4: TYPICAL REVERSE CHARACTERISTICS







Micro Commercial Components

### 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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