



*DC COMPONENTS CO., LTD.*

RECTIFIER SPECIALISTS

SS12-L  
THRU  
SS110-L

**TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**

VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 1.0 Ampere

**FEATURES**

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Glass passivated junction

**MECHANICAL DATA**

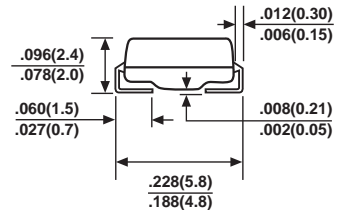
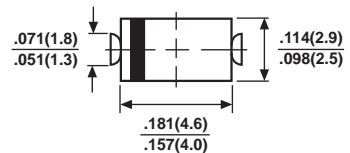
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- \* Polarity: As marked
- \* Mounting position: Any
- \* Weight: 0.064 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



SMA-F (DO-214AC)



Dimensions in inches and (millimeters)

	SYMBOL	SS12-L	SS13-L	SS14-L	SS15-L	SS16-L	SS18-L	SS110-L	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	Vdc	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	IO	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	0.55		0.70		0.85		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	@ TA = 25°C							mAmps
		1.0							
Typical Thermal Resistance (Note 1)	RθJA	@ TA = 100°C							°C/W
		20							
Typical Junction Capacitance (Note 2)	Cj	88							pF
Operating Temperature Range	TJ	110							°C
Storage Temperature Range	TSTG	-55 to +125							°C
		-55 to +150							°C

- NOTES : 1. Thermal Resistance (Junction to Ambient)  
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.  
 3. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm<sup>2</sup>) copper pad area.

# RATING AND CHARACTERISTIC CURVES ( SS12-L THRU SS110-L )

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

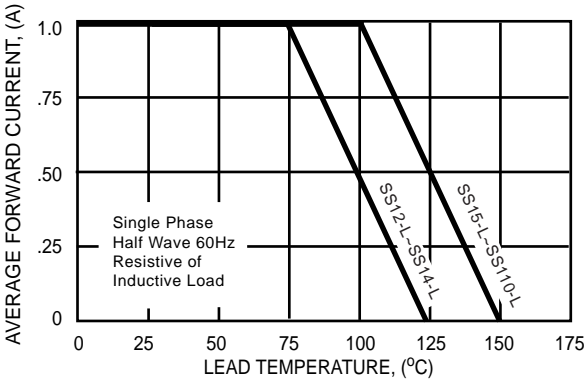


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

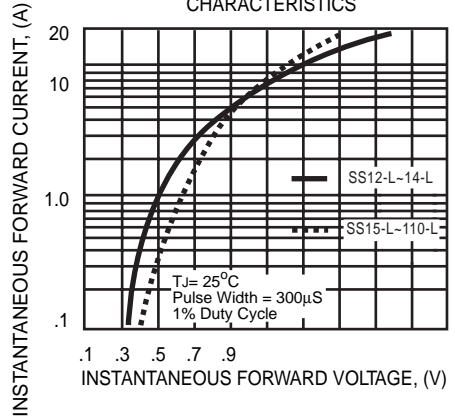


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

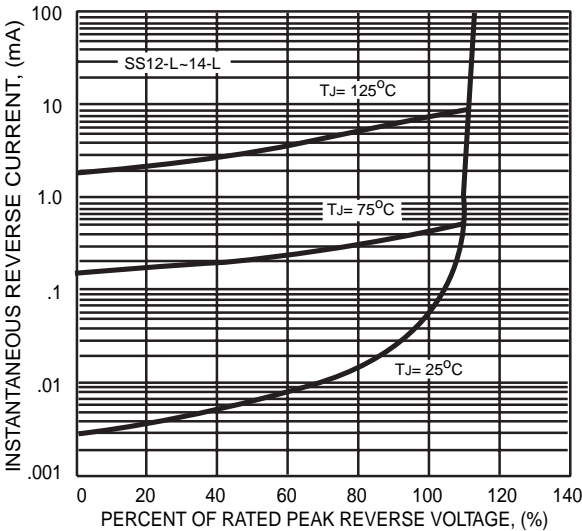


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

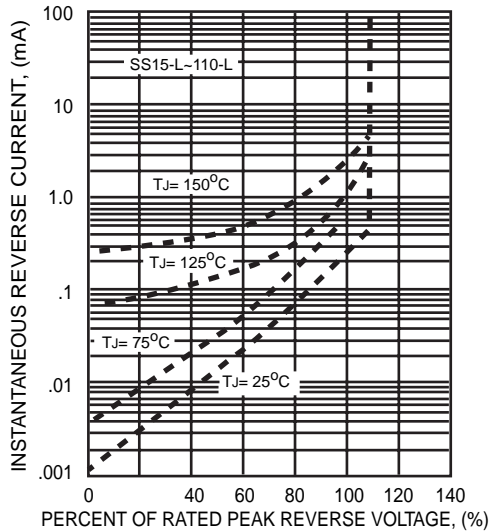


FIG.5 - TYPICAL JUNCTION CAPACITANCE

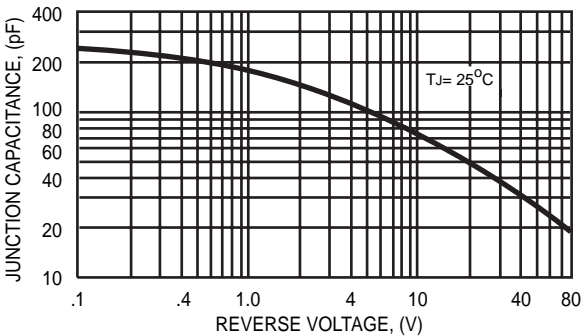


FIG.6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

