



1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 200V SMA PACKAGE

**SS12
THRU
SS120**

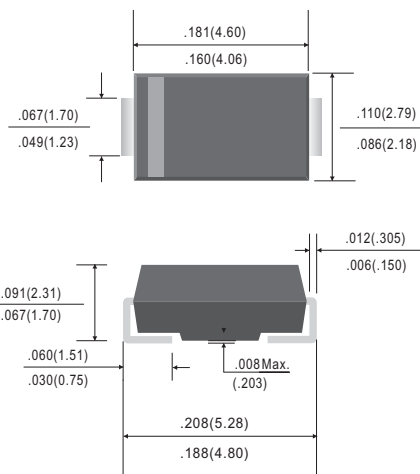
FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * High reliability
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- * **Moisture Sensitivity Level 1**

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Mounting position: Any

SMA(DO-214AC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS115	SS120	UNIT
Marking Code		SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS115	SS120	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	IO	1.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30.0									Amps
Typical Thermal Resistance	ROJA	70									°C/W
	ROJC	30									°C/W
Typical Junction Capacitance (Note 1)	CJ	70			60		50		110		pF
Operating Temperature Range	TJ	-55 to +125									°C
Storage Temperature Range	TSTG	-55 to +150									°C

CHARACTERISTICS		SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS115	SS120	UNIT
Maximum Forward Voltage at 1.0A DC	@TA=25°C	V _F	0.50			0.70		0.85		0.90	0.92	Volts
Maximum Average Reverse Current at	@TA=25°C	I _R	0.5					0.2			mAmps	
Rated DC Blocking Voltage	@TA=100°C		10.0					5.0				

Note : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts.



FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

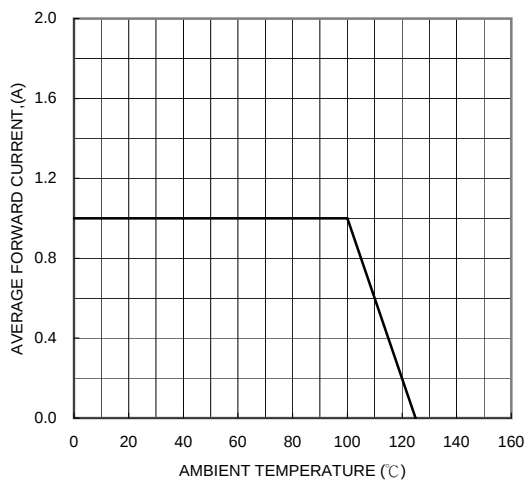


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

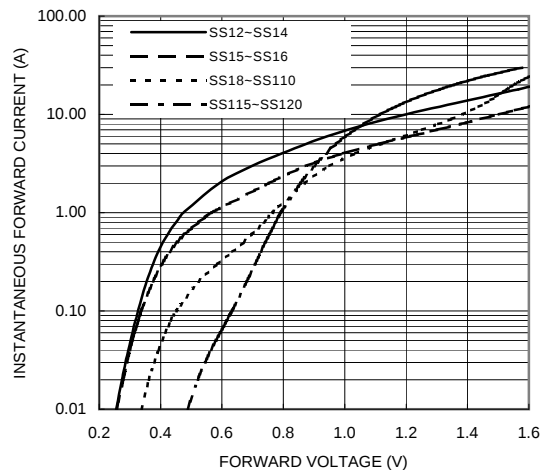


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

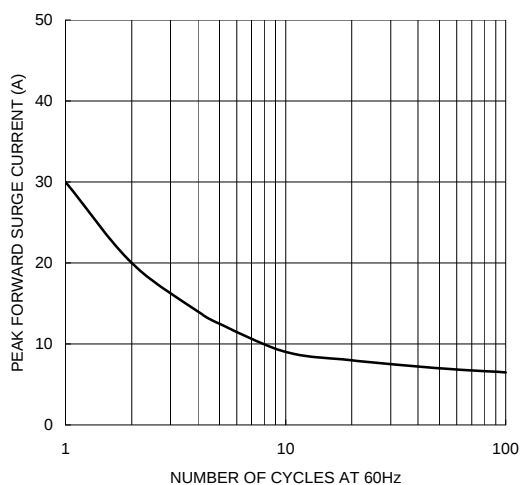


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

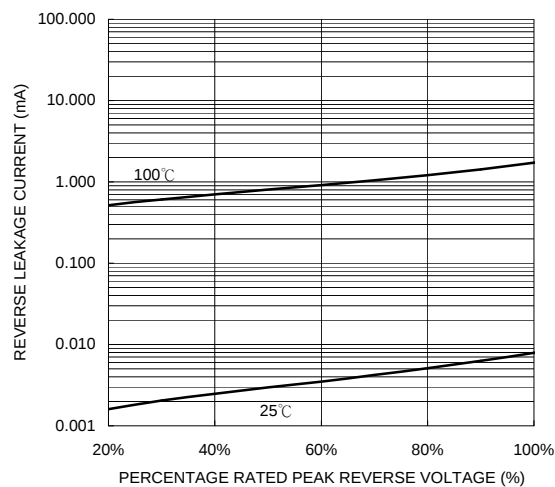
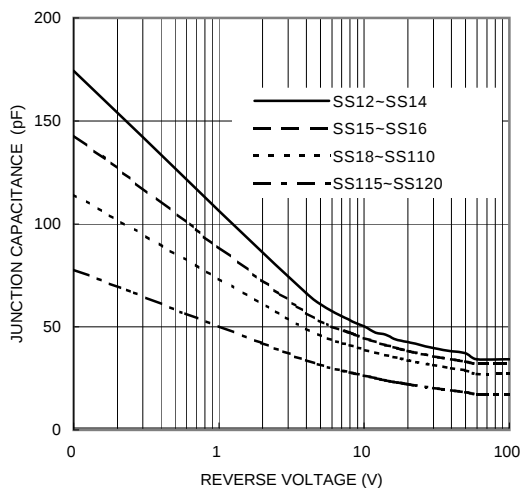


FIG. 5-TYPICAL JUNCTION CAPACITANCE





Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape & Reel Packing :5000pcs/Reel

Note: 1. Packing code, T: Tape & 13" Reel Packing;
2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

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