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SS12 THRU SS110

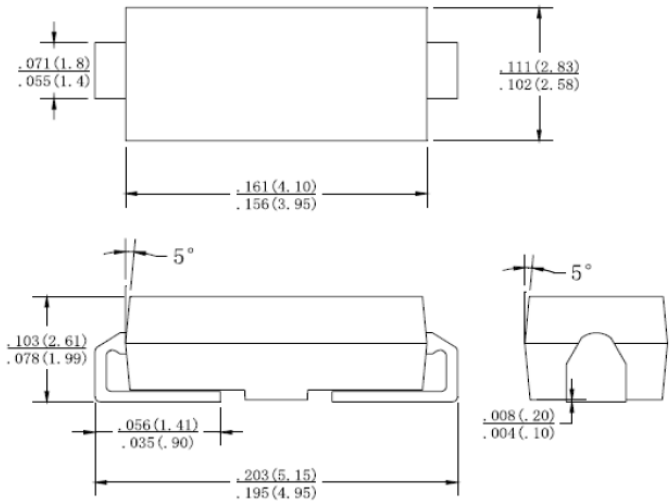
1.0AMP.SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage Range 20 to 100 Volts Current 1.0Amperes

FEATURES

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low VF
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- Epitaxial construction
- High temperature soldering: 260℃ / 10 seconds at terminals

SMA



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: molded plastic

Terminals: Solder plated

Polarity : Indicated by cathode band

Packaging: 12mm tape EIA STD RS-481

Weight: 0.074gram

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 current derate by 20%.

Type Number		SS12	SS13	SS14	SS15	SS16	SS19	SS110	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at T_L(See Fig. 2)	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage (Note@1.0 A	V_F	0.50			0.75		0.80		V
Maximum DC Reverse Crrent @ TA=25℃ At Rated DC Blocking Voltage @ TA=125℃	I_R	0.4 10.0			0.4 5.0		0.1 2.0		mA
Typical Thermal Resistance (Note)	R_{QJL} R_{QJA}	28 88							℃/W
Operating Junction Temperature Range	T_J	-65 to +125			-65 to +150				℃
Storage Temperature Ranage	T_{STG}	-65 to +150							℃

NOTE: Measured on P.C. Board with 0.2” x 0.2” (5.0mm x 5.0mm) Copper Pad Areas

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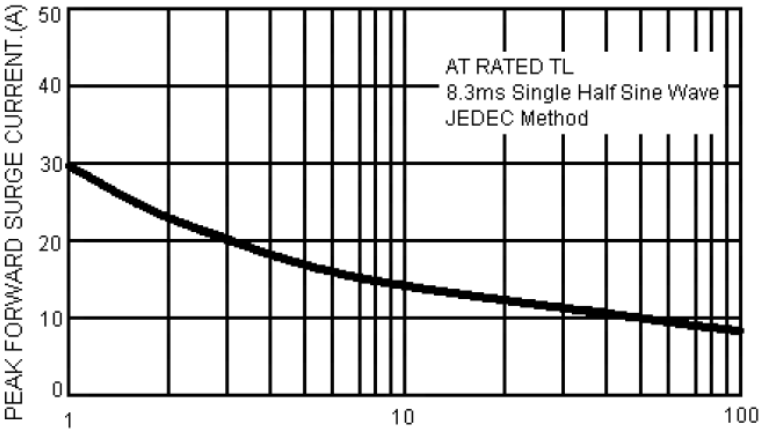
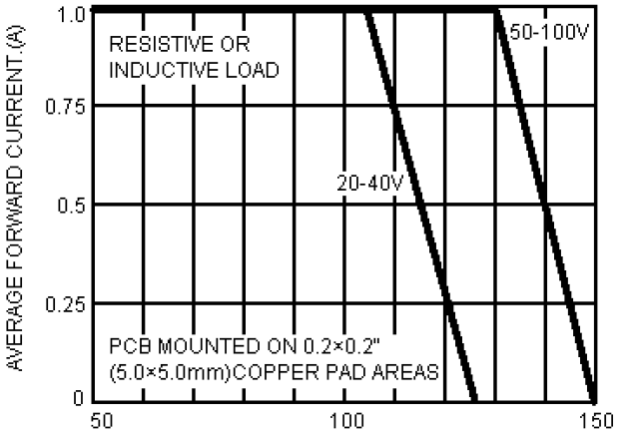
RATING AND CHARACTERISTIC CURVES SS12 THRU SS110

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT



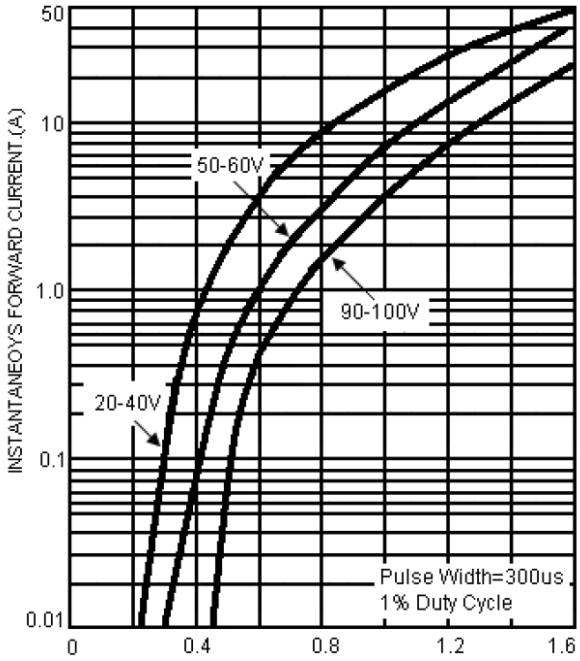
NUMBER OF CYCLES AT 60Hz

FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE



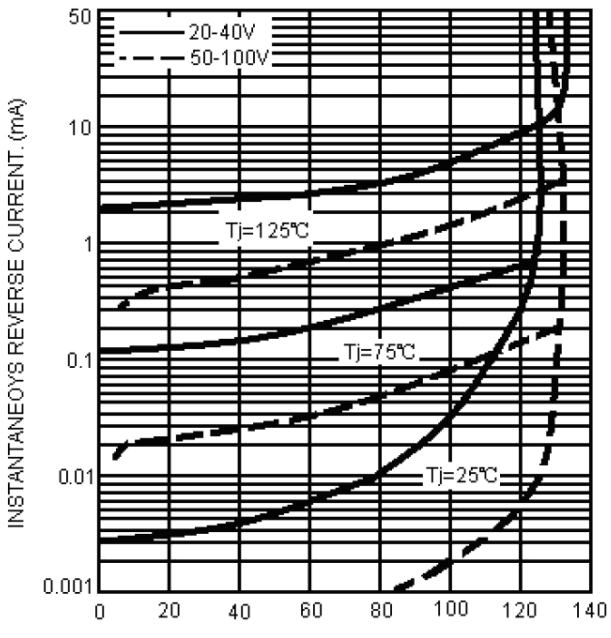
LEAD TEMPERATURE(℃)

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANT ANEOUS FORWARD VOLTAGE(V)

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE(%)

Note: Specifications are subject to change without notice.