

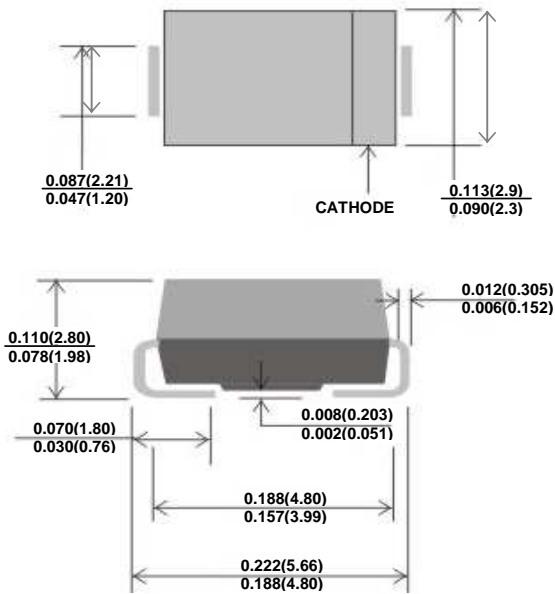


SS12 THRU SS1200

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere

DO-214AC



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0.
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction.
- ◆ Low power loss, high efficiency.
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability.
- ◆ High temperature soldering guaranteed: 250 C/10 seconds

MECHANICAL DATA

Case: JEDEC DO-214AC/SMA molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

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%.

PARAMETER	SYMBOLS	SS12	SS13	SS14	SS15	SS16	SS18	SS 1100	SS 1150	SS 1200	UNITS
Maximum repetitive 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	VR	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I(AV)	1.0									Amp
Peak forward surge current at 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0									Amps
Maximum Forward Voltage at IF=1.0A	VF	0.45	0.55	0.70	0.85	0.92					Volts
Maximum DC reverse current at rated DC blocking voltage	IR	0.5									mA
		10.0					5.0				
Typical Junction Capacitance (NOTE 1)	CJ	110			90			80			pF
Typical Thermal Resistance (NOTE 2)	RθJA	88									°C/W
Operating Junction Temperature Range	TJ	-65 to +125					-65 to +150				°C
Storage Temperature Range	TSTG	-65 to +150									°C

- Note:**
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. Mounted with minimum recommended padsize › PCBoard FR4.
 3. T_J=25°C unless otherwise specified.



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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

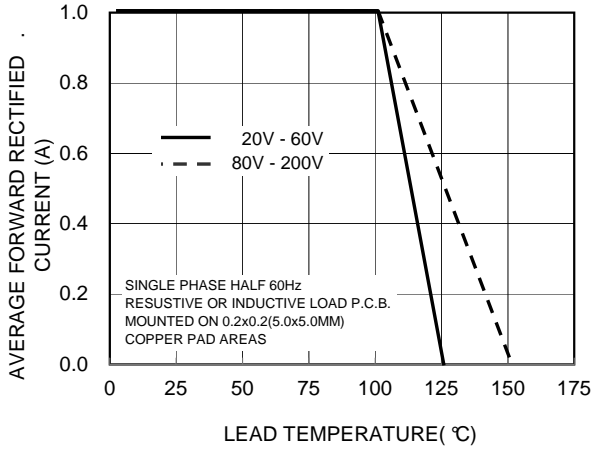


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

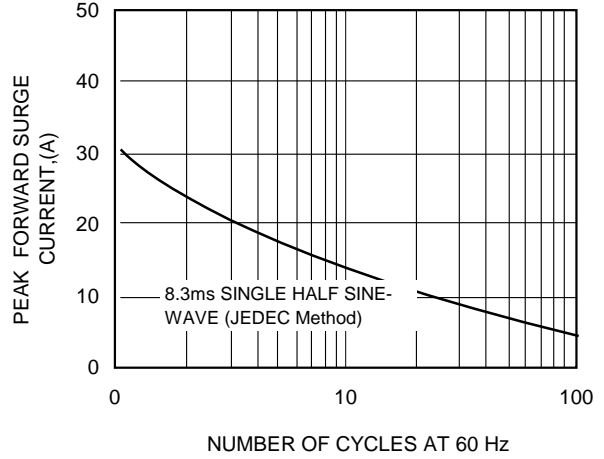


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

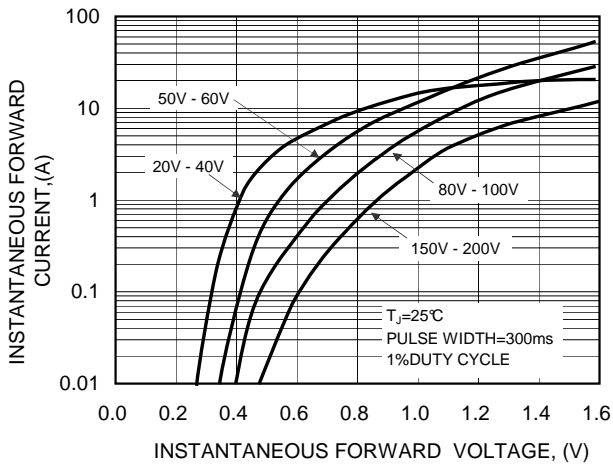


FIG. 4-TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS

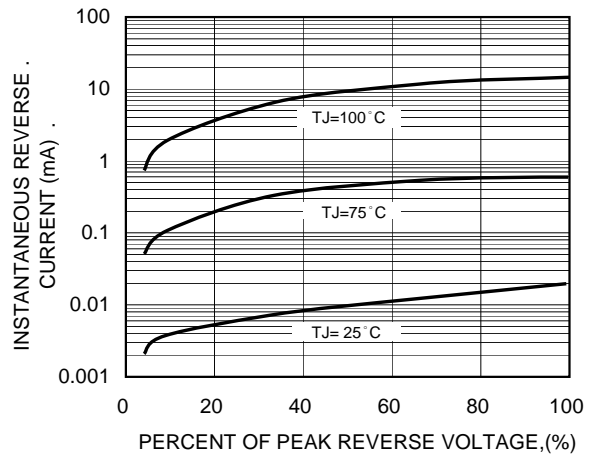


FIG. 5-TYPICAL JUNCTION CAPACITANCE

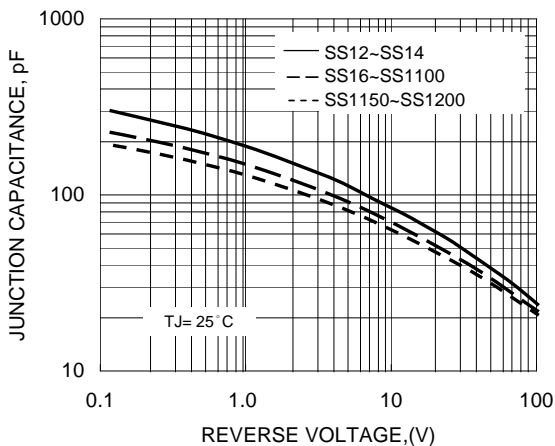


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

