DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SS12
THRU
SS120

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts *CURRENT - 1.0 Ampere*

FEATURES

* Ideal for surface mounted applications
* Low leakage current
* Low profile package
* Low power loss, high efficiency
* High surge capability

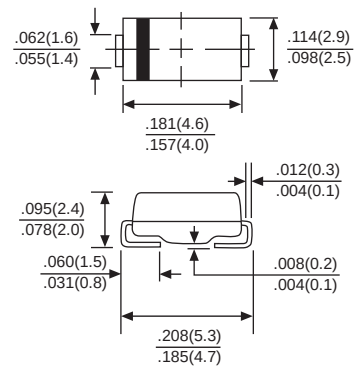
MECHANICAL DATA

* 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
Rating at 25°C ambient tempature unless ohterwise specified
Single phase, half wave 60 HZ, resistive or inductive load.
For capacitive load, derate current by 20%.



SMA(DO-214AC)



Dimensions in inches and (millimeters)

		SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS115	SS120	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature T_A=100°C		I_O	1.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	30									Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		V_F	0.55			0.70		0.85		0.95		Volts
Maximum DC Reverse Current	@T_A = 25°C	I_R	1.0									mAmps
at Rated DC Blocking Voltage	@T_A = 100°C		20									
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	88									°C/W
Typical Junction Capacitance (Note 2)		C_J	110									pF
Operating Temperature Range		T_J	-55 to +125									°C
Storage Temperature Range		T_{STG}	-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^2) copper pad area.

RATING AND CHARACTERISTIC CURVES (SS12 THRU SS120)

FIG.1
TYPICAL FORWARD CURRENT DERATING CURVE

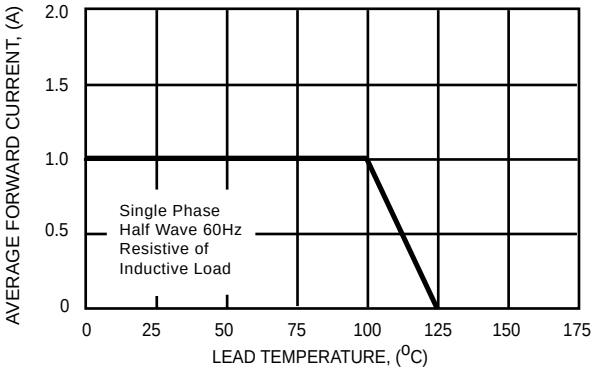


FIG.2
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

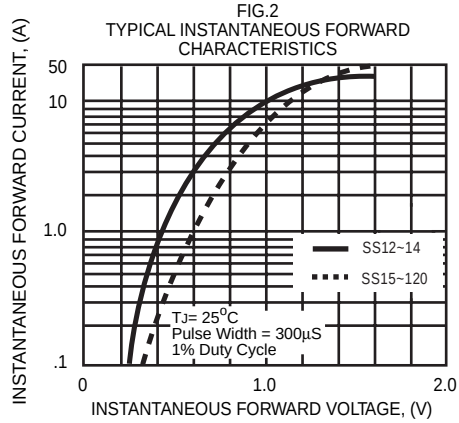


FIG.3
TYPICAL JUNCTION CAPACITANCE

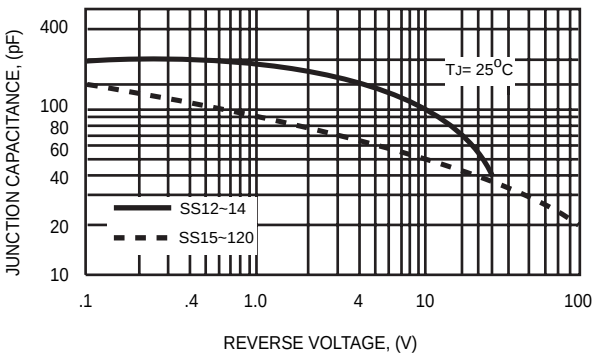


FIG.4
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

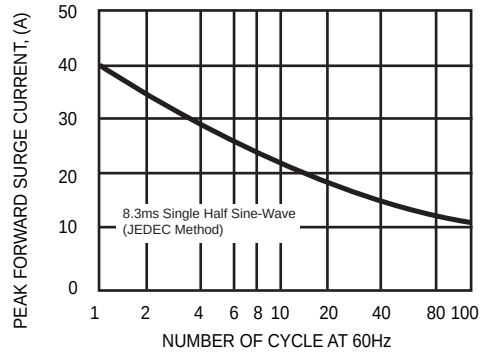


FIG.5
TYPICAL REVERSE CHARACTERISTICS

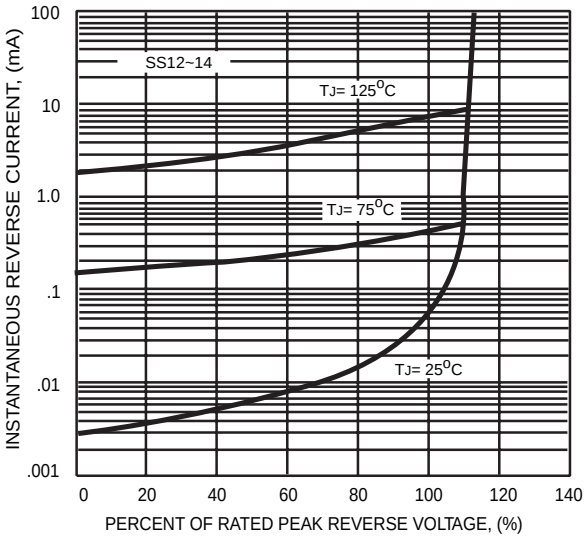
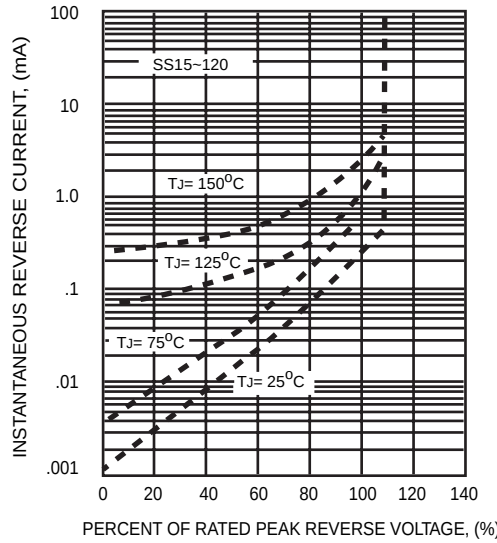


FIG.6
TYPICAL REVERSE CHARACTERISTICS



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