

# DC COMPONENTS CO., LTD.

## RECTIFIER SPECIALISTS

SS12 THRU SS18

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 80 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

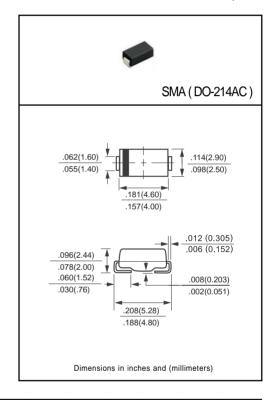
\*Terminals: Solder plated solderable per

MIL-STD-750. Method 2026

\* Polarity: As marked \* Mounting position: Any \* Weight: 0.064 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

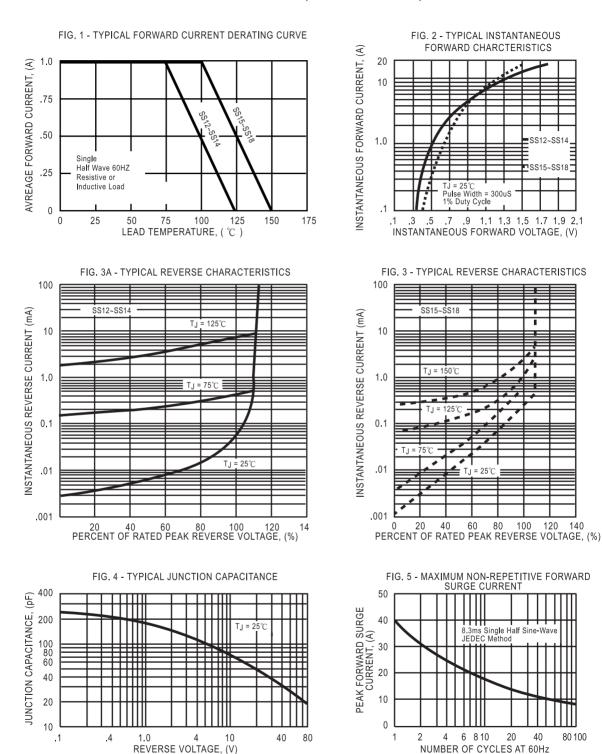
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



_		SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	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			35	Volts		
Maximum DC Reverse Current	@Ta = 25°C	- IR	1.0						- mAmps
at Rated DC Blocking Voltage	@Ta = 100°C		20						
Typical Thermal Resistance (Note 1)		RθJA	88					°C/W	
Typical Junction Capacitance (Note 2)		CJ	110						pF
Operating Temperature Range		TJ	-65 to + 125						٥C
Storage Temperature Range		Тѕтс	-65 to + 150						٥C

- 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 SS18)



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