

# DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

SM150 THRU SM160

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 50 to 60 Volts

CURRENT - 1.0 Ampere

### **FEATURES**

- \* Ideal for surface mounted applications
- \* High current capability
- \* Low leakage current for high efficiency

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \*Terminals: Solder plated solderable per

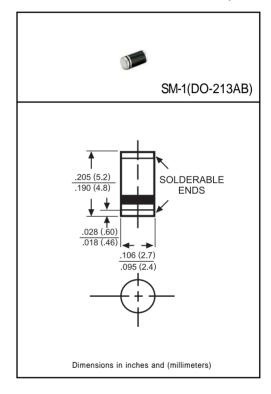
MIL-STD-202E, Method 208 guaranteed

- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.12 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

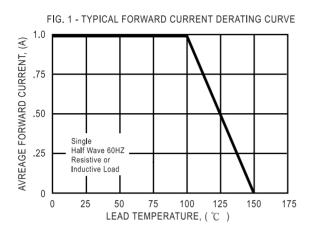


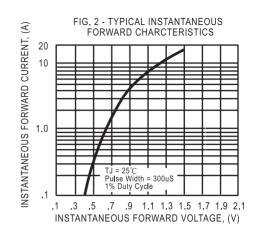
		SYMBOL	SM150	SM160	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	60	Volts
Maximum RMS Voltage		VRMS	35	42	Volts
Maximum DC Blocking Voltage		VDC	50	60	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature		Ю	1.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	40		Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.70		Volts
Maximum DC Reverse Current	@TA = 25°C	- IR	1.0		mAmps
at Rated DC Blocking Voltage	@Ta = 100°C	ik ik	1	10	
Typical Thermal Resistance (Note 1)		RθJA	7	75	
Typical Junction Capacitance (Note 2)		Cı	80		pF
Operating Temperature Range		TJ	-65 to + 150		۰C
Storage Temperature Range		Тѕтс	-65 to	-65 to + 150	

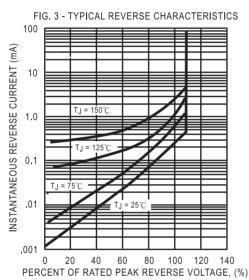
NOTES: 1. Thermal Resistance (Junction to Ambient), .24in<sub>2</sub> (6.0mm<sub>2</sub>) copper pads to each terminal.

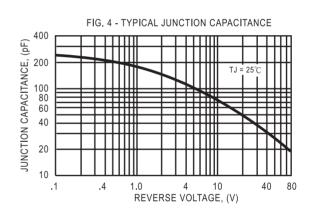
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

## RATING AND CHARACTERISTIC CURVES (SM150 THRU SM160)

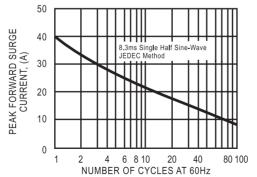














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