

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SM5817S THRU SM5819S

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER VOLTAGE RANGE - 20 to 40 Volts CURRENT - 1.0 Amperes

FEATURES

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

MECHANICAL DATA

* Case: Molded plastic

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

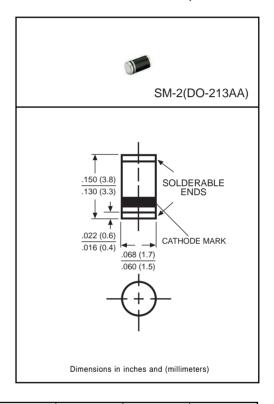
MIL-STD-202E, Method 208 guaranteed

* Polarity: Color band denotes cathode end

* Mounting position: Any * Weight: 0.036 gram

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, derate current by 20%.

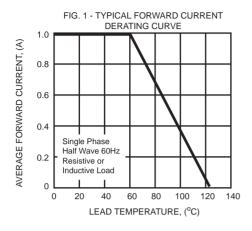


		SYMBOL	SM5817S	SM5818S	SM5819S	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	Volts
Maximum RMS Voltage		VRMS	14	21	28	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	Volts
Maximum Average Forward Rectified Current at TA=75°C		Ю	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	25			Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.45	.55	.60	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Ta = 25°C	- IR	1.0			mAmps
	@Ta = 100°C		10			
Typical Thermal Resistance (Note1)		RθJA	75			°C/W
Typical Junction Capacitance (Note 2)		Cı	110			pF
Storage Operating Temperature Range		TJ, TSTG	-65 to + 125			۰C

NOTES: 1. Thermal Resistance (Junction to Ambient), .24in2 (6.0mm2) copper pads to each terminal.

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

RATING AND CHARACTERISTIC CURVES (SM5817S THRU SM5819S)



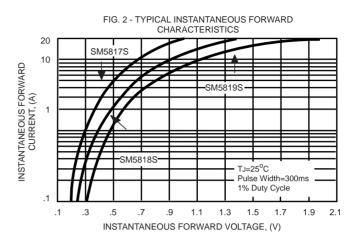


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS 100 TJ=125°C INSTANTANEOUS REVERSE CURRENT, (mA) 10 1.0 TJ=75°C 0.1 .01 $T_J=25^{\circ}C$.001 10 20 40 60 80 100 120 140 PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

