

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SM5817S THRU SM5819S

SM-2(DO-213AA)

SOLDERABLE

ENDS

°C

.150(3.81)

.130(3.33)

.022(.56)

.016(.41)

-65 to + 125

.068(1.77)

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 40 Volts

CURRENT - 1.0 Ampere

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

Storage Operating Temperature Range

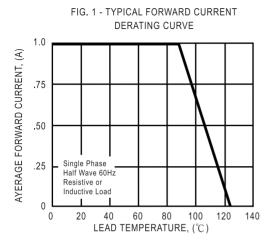
MAXIMUM RATINGS AND ELEC Ratings at 25 °C ambient temperatur Single phase, half wave, 60 Hz, re For capacitive load, derate current	e unless otherwise spe sistive or inductive lo	cified.		Dimensions in	inches and (millim	eters)
		SYMBOL	SM5817S	SM5818S	SM5819S	UNITS
Maximum Recurrent Peak Reverse Voltage		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=90°C		lo	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	.50	.55	.60	Volts
Maximum DC Reverse Current at	@TA = 25°C	IR -	1.0			mAmps
Rated DC Blocking Voltage	@TA = 100°C] IR				
Typical Thermal Resistance (Note1)		RθJA	75			°C/W
Typical Junction Capacitance (Note 2)		CJ	110			pF

TJ, TSTG

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)



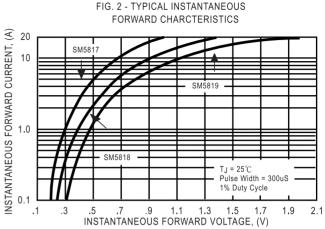
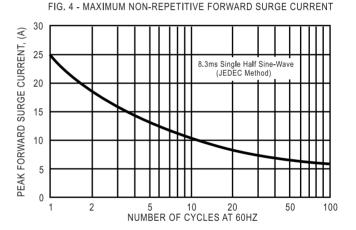
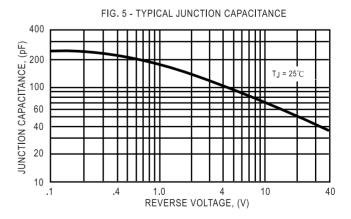


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS 100 INSTANTANEOUS REVERSE CURRENT (mA) TJ = 125℃ 10 1.0 TJ = 75°C 0.1 .01 TJ = 25℃ .001 10 20 40 60 80 100 120 140 PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)







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