

HITANO NETERPRISE CORP.

SM5817 THRU SM5819

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

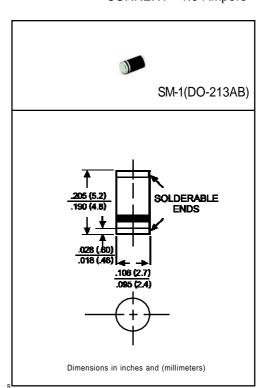
MIL-STD-202E, Method 208 guaranteed

* Polarity: Color band denotes cathode end

* Mounting position: Any * Weight: 0.12 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



		SYMBOL	SM5817	SM5818	SM5819	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 AT= 90°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	.50	.55	.60		
Maximum DC Reverse Current	@ TA= 25°C	IR		1.0			
at Rated DC Blocking Voltage	@ TA= 100°C			10		mAmps	
Typical Thermal Resistance (Note 1)		$R\theta$ JA	75			°C / W	
Typical Junction Capacitance (Note 2)		CJ	110			pF	
Storage Operating Temperature Range		TJ,TSTG	-65 to + 125			°C	

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.

