

### HITANO ENTERPRISE CORP.

#### 1N5817 THRU 1N5819

## TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 80 Volts CURRENT - 1.0 Ampere

#### **FEATURES**

\*Ideal for surface mounted application

\*Low leakage current

\*Glass passivated junction

#### MECHANICAL DATA

\*Case: Molded Plastic

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

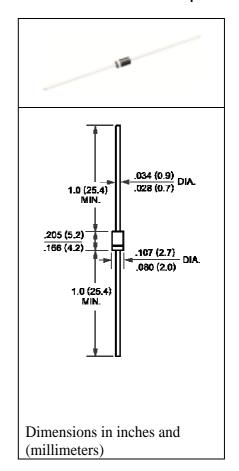
MIL-STD-750, Method 2026

\*Polarity: As marked \*Mounting position:Any \*Weight: 0.093 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	1N5817	1N5818	1N5819	UNITS
Maximum Recurrent Peak Reverse Voltage		$V_{RRM}$	20	30	40	Volts
Maximum RMS Voltage		$V_{RRS}$	14	21	28	Volts
Maximum DC Blocking Voltage		$V_{DC}$	20	30	40	Volts
Maximum Average Forward Rectified Current		lo	10			Amps
Peak Forward Surge Current 8.3 ms single half sine- wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	25			Amps
Maximum instantaneous Forward Voltage at 1.0A DC		$V_{F}$	.45	.55	.60	Volts
Maximum Forward Voltage at 3.1A DC		$V_{F}$	.75	.875	.90	Volts
Maximum DC Reverse Current at	@T <sub>A</sub> =25°C		10		mAmps	
Rated DC Blocking Voltage	@T <sub>A</sub> =100°C	I <sub>R</sub>	10			
Typical Thermal Resistance (Note1)		R <b>₀</b> JA	80			°C/w
Typical Junction Capacitance (Note2)		CJ	110			pF
Storage and Operating Temperature Range		$T_{J} T_{STG}$	-60 to +125			$^{\circ}\mathbb{C}$

NOTES: 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting , 0.375"(9.5mm) Lead Length 2. Measured at 1MHz and applied reverse voltage of 4.0 volts.

### **RATING AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)**

