HITANO ENTERPRISE CORP.

RECTIFIER SPECIALSTS

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE - 20 to 60 Volts **CURRENT -2.0 Amperes**

FEATURES

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

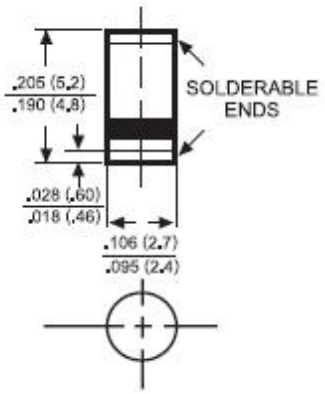
MECHANICAL DATA

*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: 0.12 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz , resistive or inductive load.
For capacitive load , derate current by 20%.

SM-1(DO-213AB)



Dimensions in inches and (millimeters)

		SYMBOL	SM220	SM230	SM240	SM250	SM260	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage		V_{RRS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current		Io	2.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	40					Amps
Maximum instantaneous Forward Voltage at 2.0A DC		V_F	.45	.55	.60	.75		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T_A=25℃	I_R	20					mAmps
	@T_A=100℃		40					
Typical Thermal Resistance (Note1)		$R_{\Theta JA}$	200					℃/w
Typical Junction Capacitance (Note2)		C_J	110					pF
Storage and Operating Temperature Range		T_J,T_{STG}	-60 to +125					℃

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)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

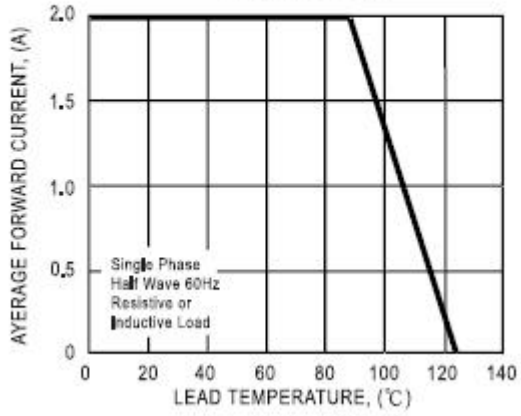


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

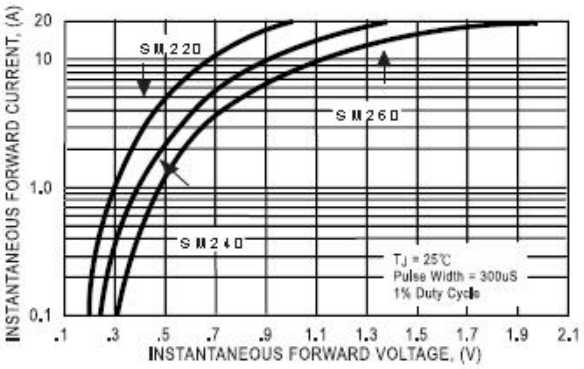


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

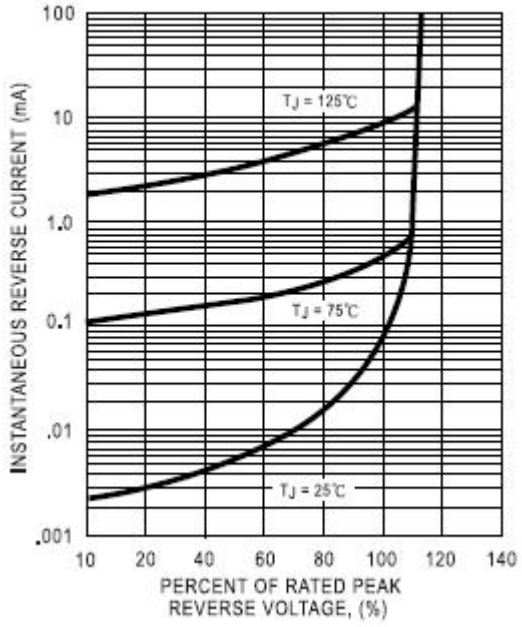


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

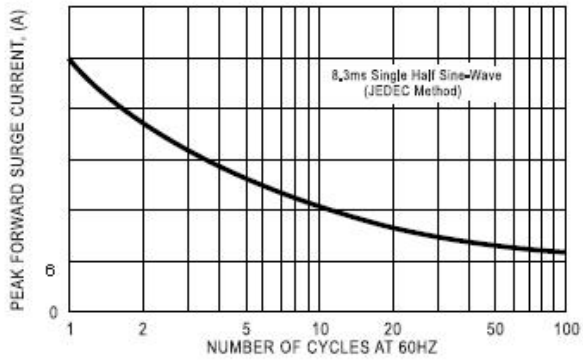


FIG. 5 - TYPICAL JUNCTION CAPACITANCE