

## ENTERPRISE CORP. HITANO ENTERPRISE CORP.

### SK12 THRU SK18

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

### **FEATURES**

- \* Ideal for surface mounted applications
- \* 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

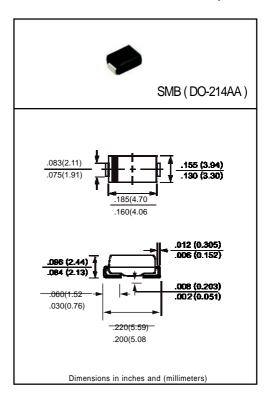
\* Polarity: As marked\* Mounting position: Any\* Weight: 0.093 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive

load.

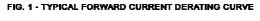
For capacitive load, derate current by 20%.

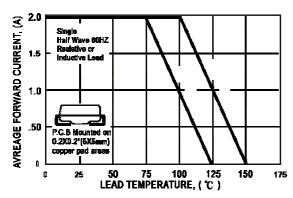


		SYMBOL	SK12	SK13	SK14	SK15	SK16	SK18	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature		lo	1.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50					Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF		0.55 0.70 0.85		0.85	Volts		
Maximum DC Reverse Current	@TA = 25°C	l <sub>R</sub>	1.0					mAmps	
at Rated DC Blocking Voltage	@TA = 100°C	IR IR	20						
Typical Thermal Resistance (Note 2)		RθJA	95					°C/W	
Typical Junction Capacitance (Note 1)		Cı	130						pF
Operating Temperature Range		TJ	-65 to + 125						٥C
Storage Temperature Range		Тѕт	-65 to + 150					۰C	

NOTES: 1. Thermal Resistance (Junction to Ambient).

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. P.C.B Mounted with  $0.2X0.2^{\star}(5.0X5.0\text{mm}^2)$  copper pad area.







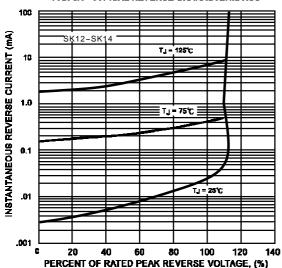


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

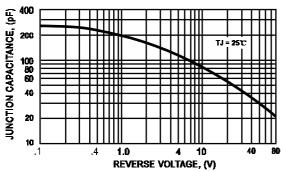


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

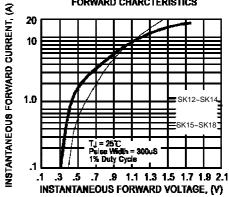


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

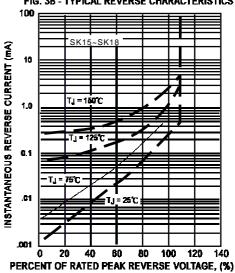


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

