

# HITANO ENTERPRISE CORP.

### SR520 THUR SR5100

# TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

## **CURRENT - 5.0 Amperes**

#### **FEATURES**

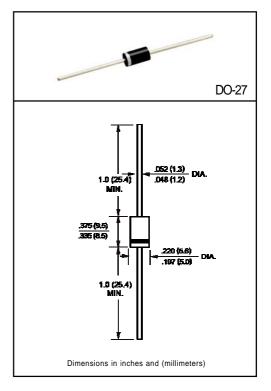
- \* High reliability
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any\* Weight: 1.18 grams

#### 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	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length		lo	5.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150						Amps	
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	.55 .70 .85			85	Volts			
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	lR	2.0							mAmps
	$@TA = 100^{\circ}C$		50							
Typical Thermal Resistance (Note 1)		RθJ	18							°C/W
Typical Junction Capacitance (Note 2)		CJ		550 400				pF		
Operating Temperature Range		TJ	-65 to +150							٥C
Storage Temperature Range		Тѕтс	-65 to +150							۰C

 $NOTES: \ \ 1. \ Thermal \ Resistance \ (Junction \ to \ Ambient): \ Vertical \ PC \ Board \ Mounting, \ 0.5*(12.7mm) \ Lead \ Length.$ 

Measured at 1 MHz and applied reverse voltage of 4.0 volts.

#### RATING AND CHARACTERISTIC CURVES (SR520 THRU SR5100)

