

# DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

SR5020 THRU SR5060

# TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 60 Volts CURRENT - 50 Amperes

#### **FEATURES**

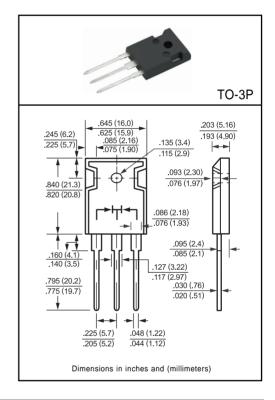
- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* High switching capability
- \* High surge capabitity
- \* High reliability

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: As marked \* Mounting position: Any \* Weight: 5.6 grams

#### 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	SR5020	SR5030	SR5040	SR5050	SR5060	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current		lo	50					Amps
at Derating Case Temperature								
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	400					Amps
Maximum Instantaneous Forward Voltage at 25.0A DC		VF	.65 .75			.75	Volts	
Maximum DC Reverse Current	@Tc = 25°C	IR	10					mAmps
at Rated DC Blocking Voltage	@Tc = 100°C	IK .	100					mAmps
Typical Thermal Resistance (Note 1)		RθJC	1.2					°C/W
Operating Temperature Range		TJ	-65 to + 150					٥C
Storage Temperature Range		Тѕтс	-65 to + 150					۰c

NOTES: 1. Thermal Resistance Junction to Case per leg.

2. Suffix "A" = Common Anode.

#### RATING AND CHARACTERISTIC CURVES (SR5020 THRU SR5060)

