



**FUKUCOM COMPANY LTD.**

**福 靈 有 限 公 司**

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

|   |                              |                                   |
|---|------------------------------|-----------------------------------|
|  | <p>RECTIFIER SPECIALISTS</p> | <p>SR3020<br/>THRU<br/>SR3060</p> |
|---|------------------------------|-----------------------------------|

*TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER*

*VOLTAGE RANGE - 20 to 60 Volts*

*CURRENT - 30 Amperes*

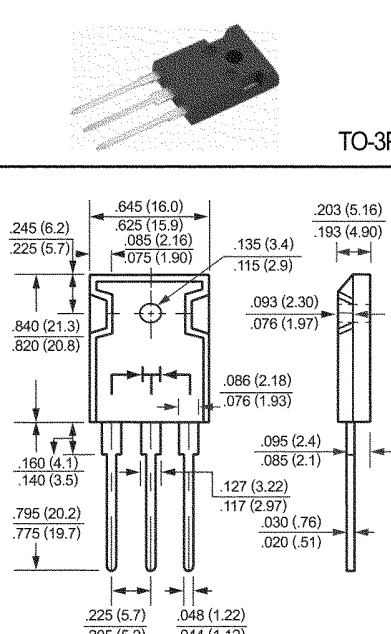
**FEATURES**

- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* High switching capability
- \* High surge capability
- \* 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: 5.60 grams

TO-3P



Dimensions in inches and (millimeters)

**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                  | SR3020       | SR3030 | SR3040 | SR3050 | SR3060 | UNITS |
|---|-------------------------|--------------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>        | 20           | 30     | 40     | 50     | 60     | Volts |
| Maximum RMS Voltage   | V <sub>RMS</sub>        | 14           | 21     | 28     | 35     | 42     | Volts |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>         | 20           | 30     | 40     | 50     | 60     | Volts |
| Maximum Average Forward Rectified Current at Derating Case Temperature                            | I <sub>O</sub>          | 30           |        |        |        |        | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | I <sub>FSM</sub>        | 300          |        |        |        |        | Amps  |
| Maximum Instantaneous Forward Voltage at 15.0A DC   | V <sub>F</sub>          | .65          |        |        | .75    |        | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage   | @T <sub>c</sub> = 25°C  | 5            |        |        |        |        | mAmps |
|   | @T <sub>c</sub> = 100°C | 100          |        |        |        |        | mAmps |
| Typical Thermal Resistance (Note 1)   | R <sub>θJC</sub>        | 1.4          |        |        |        |        | °C/W  |
| Operating Temperature Range   | T <sub>J</sub>          | -65 to + 150 |        |        |        |        | °C    |
| Storage Temperature Range   | T <sub>STG</sub>        | -65 to + 150 |        |        |        |        | °C    |

NOTES : 1. Thermal Resistance Junction to Case per leg.  
2. Suffix "A" = Common Anode.



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### RATING AND CHARACTERISTIC CURVES (SR3020 THRU SR3060)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

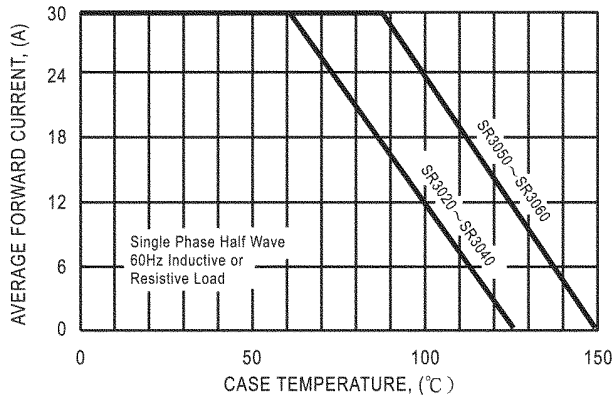


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

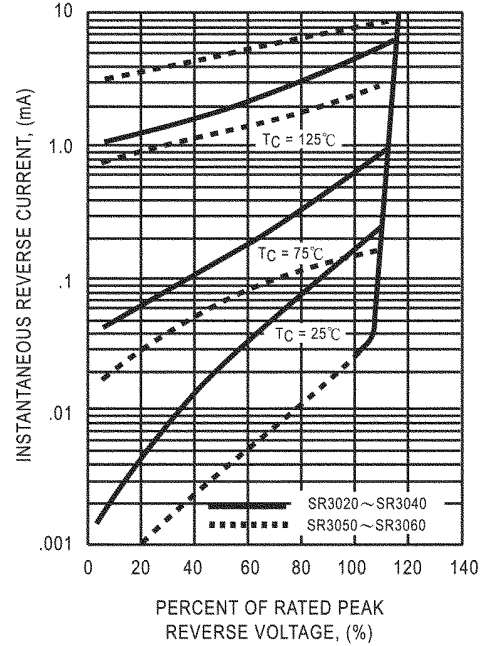


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

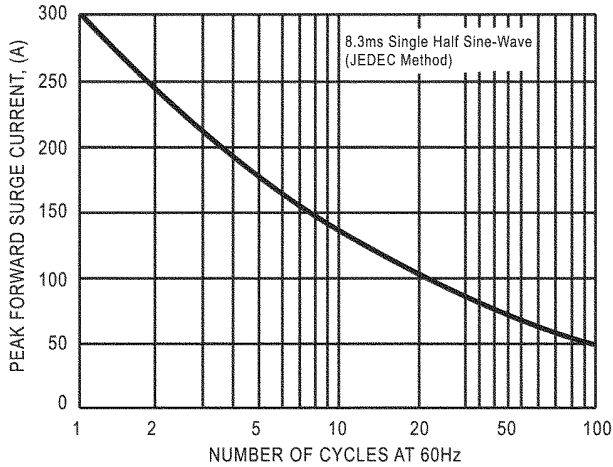


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

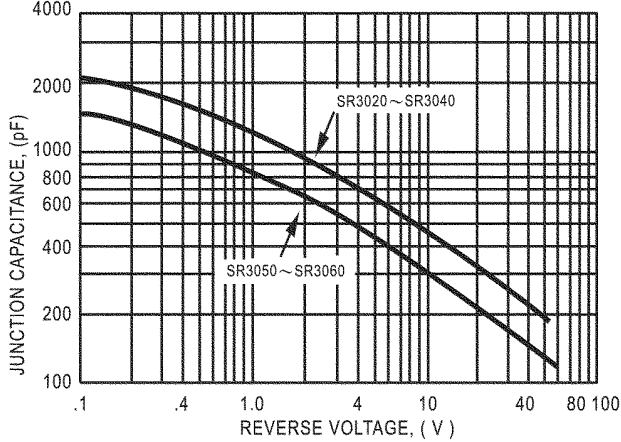


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

