

## SR520 - SR560

**PRV : 20 - 60 Volts**  
**I<sub>o</sub> : 5.0 Amperes**

### FEATURES :

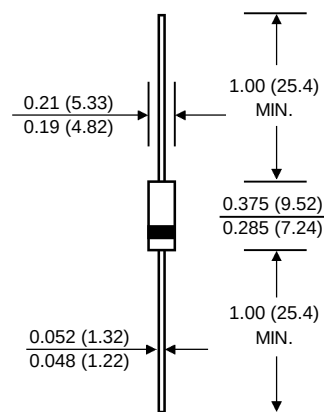
- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low cost
- \* Low forward voltage drop
- \* Pb / RoHS Free

### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.1 grams

## SCHOTTKY BARRIER RECTIFIER DIODES

### DO-201AD



Dimensions in inches and ( millimeters )

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

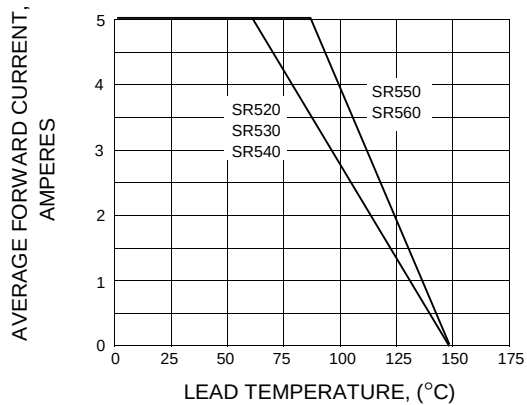
| RATING                                                                                                          | SYMBOL             | SR520         | SR530 | SR540 | SR550 | SR560 | UNIT |
|-----------------------------------------------------------------------------------------------------------------|--------------------|---------------|-------|-------|-------|-------|------|
| Maximum Recurrent Peak Reverse Voltage                                                                          | V <sub>RRM</sub>   | 20            | 30    | 40    | 50    | 60    | V    |
| Maximum RMS Voltage                                                                                             | V <sub>RMS</sub>   | 14            | 21    | 28    | 35    | 42    | V    |
| Maximum DC Blocking Voltage                                                                                     | V <sub>DC</sub>    | 20            | 30    | 40    | 50    | 60    | V    |
| Maximum Average Forward Current<br>0.375", 9.5mm Lead Length See Fig.1                                          | I <sub>F(AV)</sub> | 5.0           |       |       |       |       | A    |
| Maximum Peak Forward Surge Current,<br>8.3ms single half sine wave<br>superimposed on rated load (JEDEC Method) | I <sub>FSM</sub>   | 150           |       |       |       |       | A    |
| Maximum Forward Voltage at I <sub>F</sub> = 5 A (Note 1)                                                        | V <sub>F</sub>     | 0.57          |       |       | 0.70  |       | V    |
| Maximum Reverse Current at Ta = 25 °C                                                                           | I <sub>R</sub>     | 10            |       |       |       |       | mA   |
| Rated DC Blocking Voltage (Note 1) Ta = 100 °C                                                                  | I <sub>R(H)</sub>  | 50            |       |       | 25    |       | mA   |
| Junction Temperature Range                                                                                      | T <sub>J</sub>     | - 55 to + 150 |       |       |       |       | °C   |
| Storage Temperature Range                                                                                       | T <sub>STG</sub>   | - 55 to + 150 |       |       |       |       | °C   |

### Note :

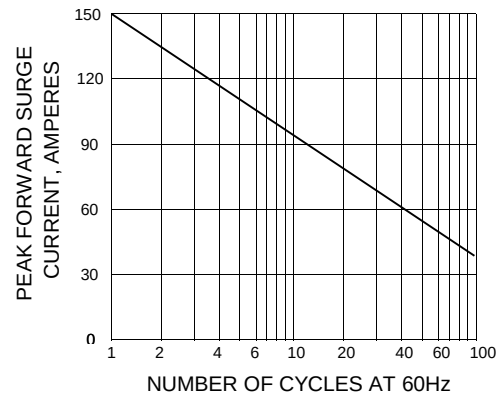
(1) Pulse Test : Pulse Width = 300μs, Duty Cycle = 2%.

## RATING AND CHARACTERISTIC CURVES ( SR520 - SR560 )

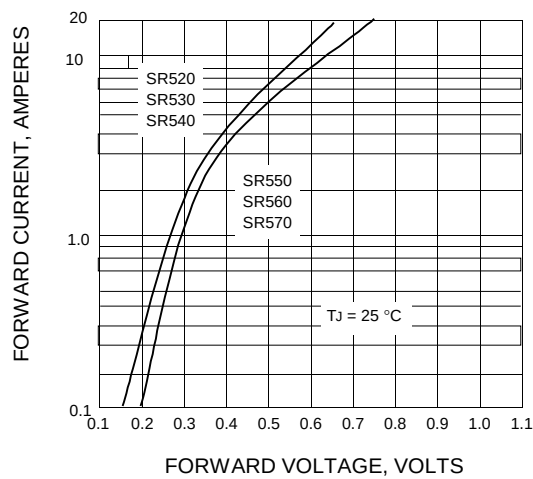
**FIG.1 - FORWARD CURRENT DERATING CURVE**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

