

### FEATURES:

- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling application

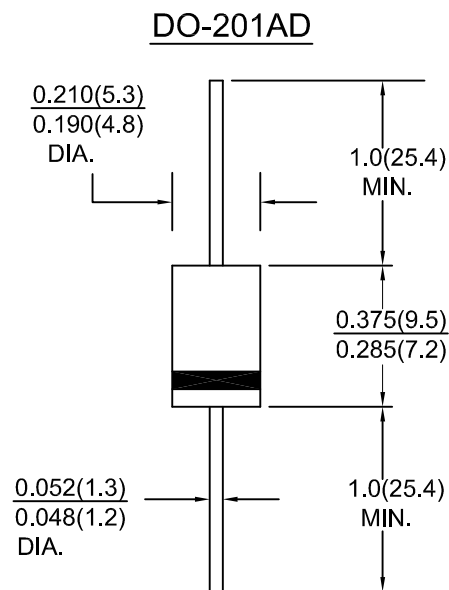
### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

Terminals : Axial leads, solderable per MIL-STD-202 Method 208

Polarity : Color band on body denotes cathode end

Mounting Position : Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

| Characteristic  | Symbol | SRL320      | SRL330 | SRL340 | Units |
|---|--------|-------------|--------|--------|-------|
| Maximum recurrent peak reverse voltage  | VRRM   | 20          | 30     | 40     | Volts |
| Maximum RMS voltage   | VRMS   | 14          | 21     | 28     | Volts |
| Maximum DC blocking voltage   | VDC    | 20          | 30     | 40     | Volts |
| Maximum average forward rectified current SEE FIG.1   | IO     | 3.0         |        |        | Amps  |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)           | IFSM   | 80          |        |        | Amps  |
| Maximum instantaneous forward voltage drop at 3.0 A (NOTE 1)  | VF     | 0.45        |        |        | Volts |
| Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1) <div>Ta=25℃<br/>Ta=100℃</div> | IR     | 1.5         |        |        | mA    |
|   |        | 20          |        |        |       |
| Operating junction temperature range  | Tj     | -65 to +125 |        |        | ℃     |
| Storage temperature range   | Tstg   | -65 to +150 |        |        | ℃     |

NOTE :

1. Pulse test: 300  $\mu$ s pulse width, 1% duty cycle

2. Thermal resistance from junction to lead vertical P.C.B mounted , 0.5"(12.7mm) lead length with 2.5X2.5"(63.5mmX63.5mm) copperpads

# RATINGS AND CHARACTERISTIC CURVES SRL320 THRU SRL340

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

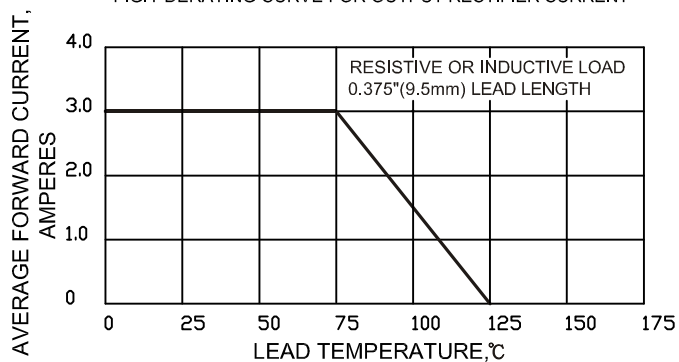


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

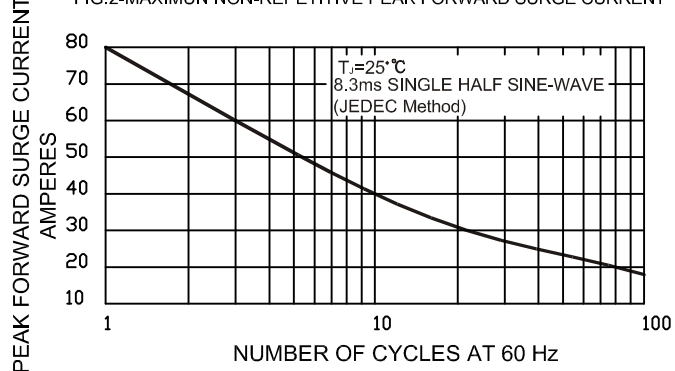


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

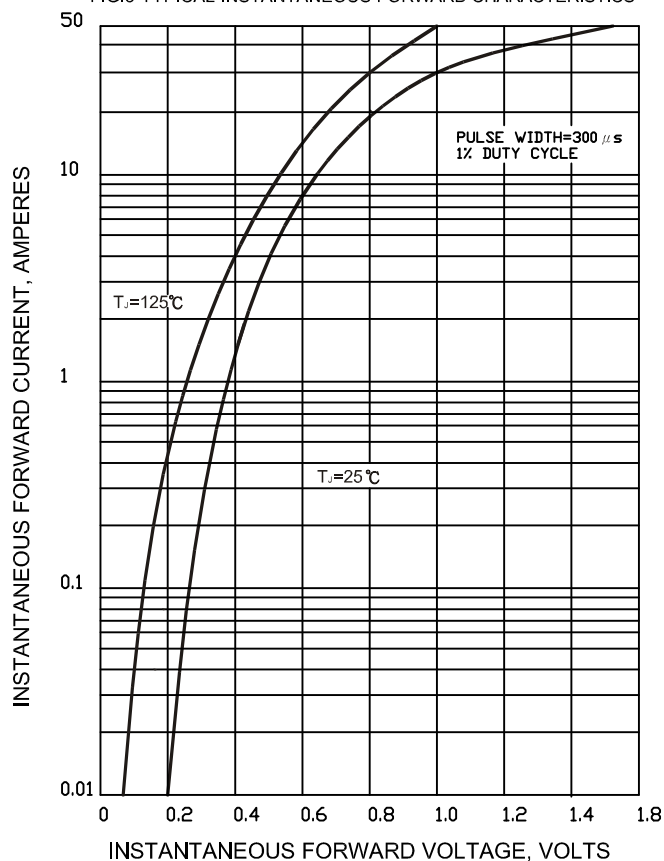


FIG.4-TYPICAL REVERSE CHARACTERISTICS

