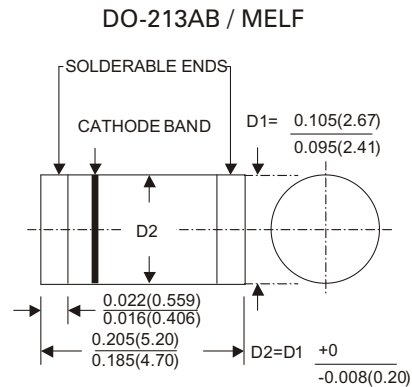


# SR220M thru SR260M

## SURFACE MOUNT SCHOTTKY RECTIFIER



Dimension in inches (millimeters)

### FEATURES

- Low power loss, high efficiency
- High current and surge capability
- Low forward voltage drop
- Guarding for over voltage protection
- High temperature soldering guaranteed :  
250°C/10 seconds/ · 375" , (9.5mm) lead lengths

### MECHANICAL DATA

Case : Molded plastic use UL94V-0 recognized  
flame retardant epoxy  
Terminals : Plated terminals  
Polarity : Blue Color band on body denotes cathode  
Mounting position : Any  
Weight : 0.1296grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temp. unless otherwise specified  
Single phase, half sine wave, 60Hz, resistive or inductive load  
For capacitive load, derate current by 20%

|   | SYMBOL                             | SR220M                     | SR230M | SR240M | SR250M | SR260M | UNITS                       |
|---|------------------------------------|----------------------------|--------|--------|--------|--------|-----------------------------|
| Maximum Current Peak Reverse Voltage  | $V_{RRM}$                          | 20                         | 30     | 40     | 50     | 60     | Volts                       |
| Maximum RMS Voltage   | $V_{RMS}$                          | 14                         | 21     | 28     | 35     | 42     | Volts                       |
| Maximum DC Blocking Voltage   | $V_{DC}$                           | 20                         | 30     | 40     | 50     | 60     | Volts                       |
| Maximum Average Forward Rectified Current   | $I_{(AV)}$                         | 2.0                        |        |        |        |        | Amps                        |
| Peak Forward Surge Current Single Sine-Wave on Rated Load (JEDEC Method)                                  | $I_{FSM}$                          | 50                         |        |        |        |        | Amps                        |
| Maximum Instantaneous Forward Voltage Drop at 2.0A DC   | $V_F$                              | 0.5                        | 0.55   | 0.6    | 0.75   |        | Volts                       |
| Maximum DC Reverse Current $T_A=25^\circ\text{C}$<br>at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$ | $I_r$                              | 0.5<br>20                  |        |        |        |        | mA                          |
| Typical Thermal Resistance  | $R_{\theta JA}$<br>$R_{\theta JL}$ | 55<br>17                   |        |        |        |        | $^\circ\text{C} / \text{W}$ |
| Typical Junction Capacitance  | $C_J$                              | 48                         |        |        | 30     |        | pF                          |
| Operating Junction and Storage Temperature Range  | $T_J$<br>$T_{STG}$                 | -55 to +125<br>-55 to +150 |        |        |        |        | $^\circ\text{C}$            |

# SR220M thru SR260M

## SURFACE MOUNT SCHOTTKY RECTIFIER

### RATING AND CHARACTERISTICS CURVES SR220M THRU SR260M

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

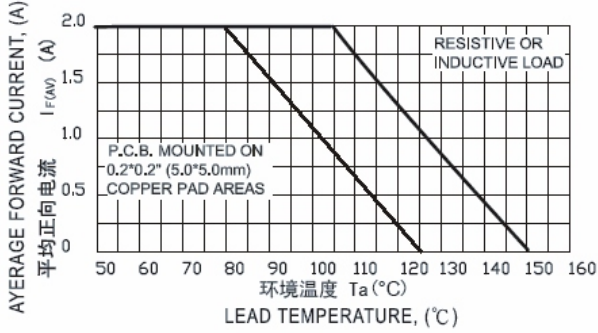


FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

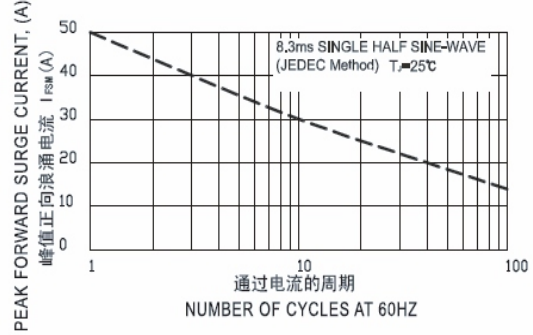


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

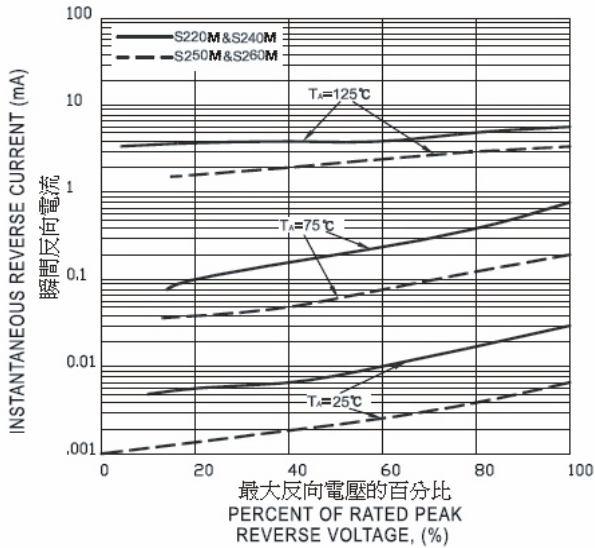


FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

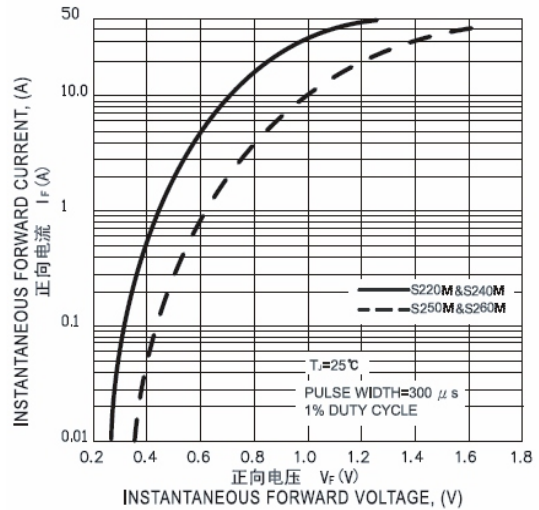


FIG. 5 – TYPICAL JUNCTION CAPACITANCE

