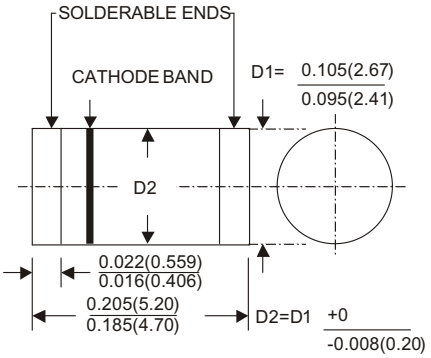
SR220M thru SR260M

SURFACE MOUNT SCHOTTKY RECTIFIER

DO-213AB / MELF



Dimension in inches (millimeters)

FEATURES

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

MECHANICAL DATA

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

MAXIMUM RATIXGS 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°C at Rated DC Blocking Voltage T_A=100°C	I_R	0.5 20					mA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	55 17					°C / W
Typical Junction Capacitance	C_J	48			30		pF
Operating Junction and Storage Temperature Range	T_J T_{STG}	-55 to +125 -55 to +150					°C

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RATING AND CHARACTERISTICS CURVES SR220M THRU SR260M

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

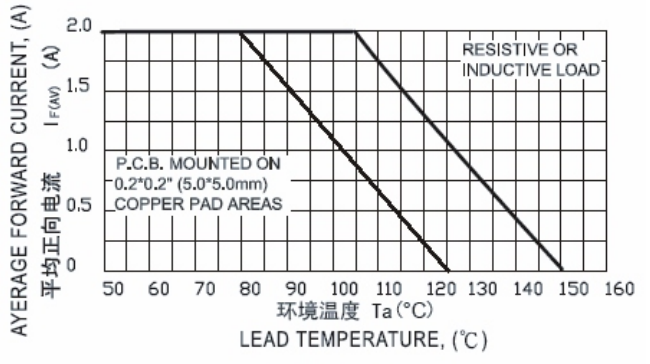

FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

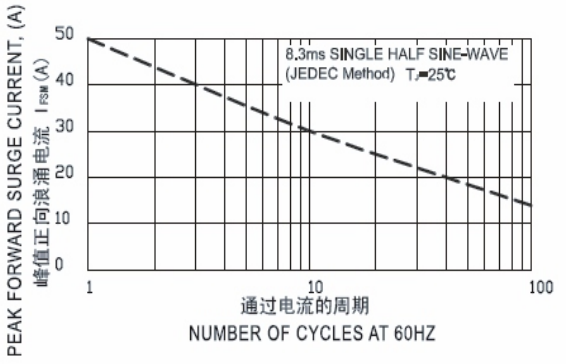

FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

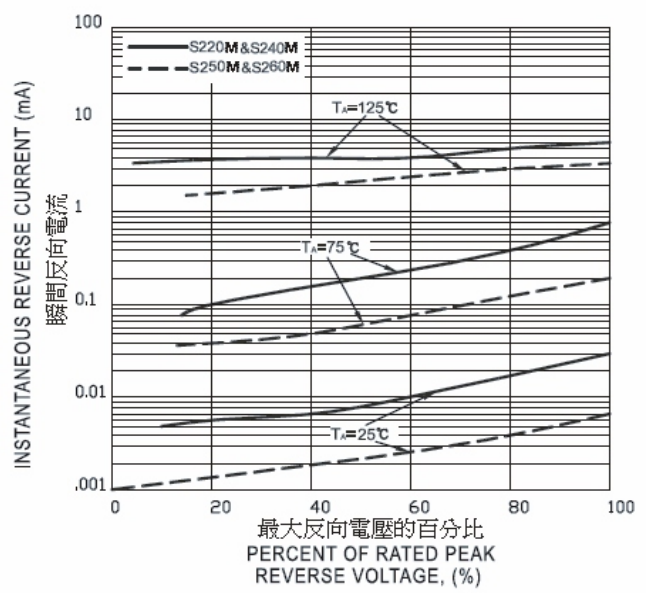

FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

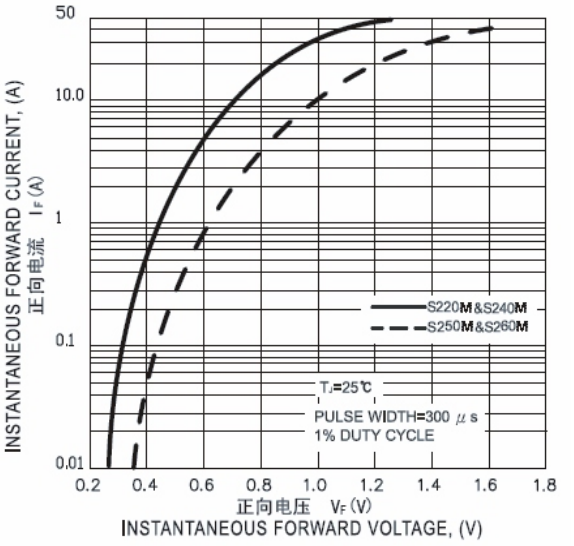

FIG. 5 –TYPICAL JUNCTION CAPACITANCE