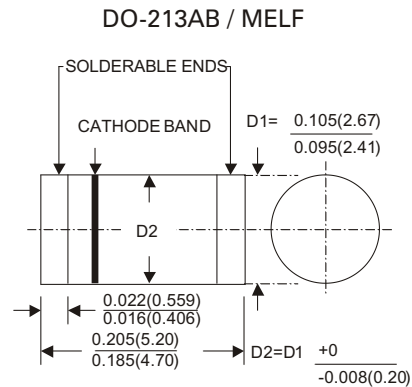


# SR320M thru SR360M

## 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	SR320M	SR330M	SR340M	SR350M	SR360M	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	$I_{(AV)}$	3.0					Amps
Peak Forward Surge Current Single Sine-Wave on Rated Load (JEDEC Method)	$I_{FSM}$	100					Amps
Maximum Instantaneous Forward Voltage Drop at 3.0A DC	$V_F$	0.5			0.75		Volts
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	$I_r$	0.5			20		mA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	55			17		$^\circ\text{C} / \text{W}$
Typical Junction Capacitance	$C_J$	500			250		pF
Operating Junction and Storage Temperature Range	$T_J$ $T_{STG}$	-55 to +125 -55 to +150					$^\circ\text{C}$

# SR320M thru SR360M

## SURFACE MOUNT SCHOTTKY RECTIFIER

### RATING AND CHARACTERISTICS CURVES SR320M THRU SR360M

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

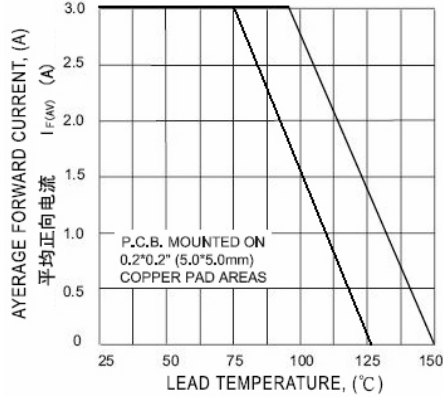


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

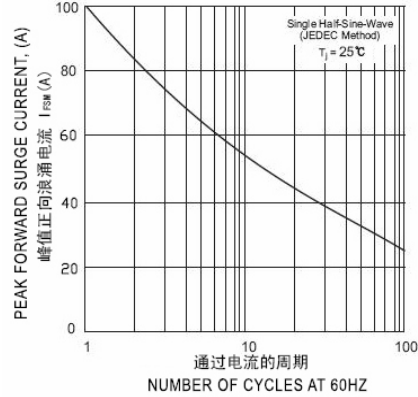


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

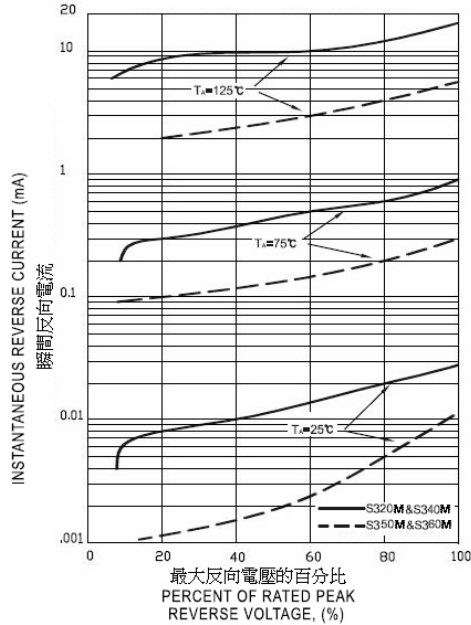


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

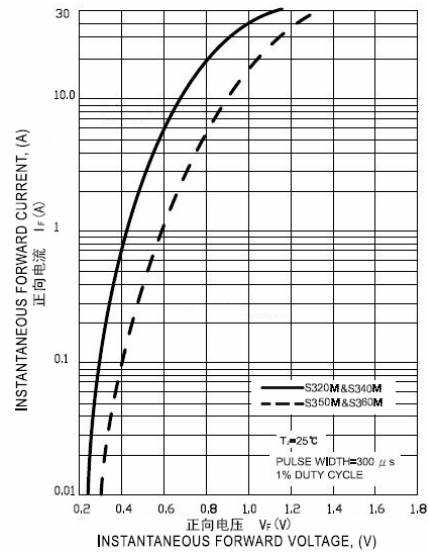


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

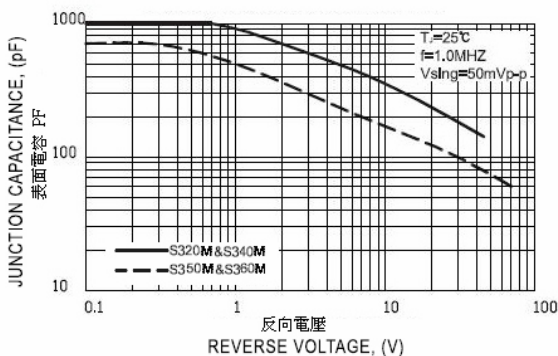


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

