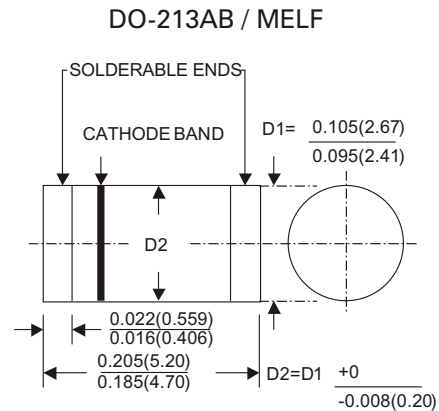


SM5400 thru SM5408

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIERS



Dimension in inches (millimeters)

FEATURES

- Ideal for surface mounted applications
- Low leakage current
- Glass passivated chips
- Easy pick and place
250°C/10 seconds/.375" , (9.5mm) lead lengths
- 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, solderable per MIL-STD-202, Method208
 Polarity : Red Color band on body denotes cathode
 Mounting position : Any
 Weight : 0.036grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SM5400	SM5401	SM5402	SM5403	SM5404	SM5405	SM5406	SM5407	SM5408	UNITS
Maximum Current Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current $T_T=55^\circ\text{C}$	$I_{(AV)}$	3.0									Amps
Peak Forward Surge Current Single Sine-Wave on Rated Load (JEDEC Method)	I_{FSM}	150									Amps
Maximum Instantaneous Forward Voltage Drop at 3.0A DC	V_F	1.1									Volts
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	5.0 100									μA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	40 10									$^\circ\text{C} / \text{W}$
Typical Junction capacitance	C_J	60									pF
Operating Junction And Storage Temperature Range	T_J T_{STG}	-55 to +150									$^\circ\text{C}$



SM5400 thru SM5408

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIERS

RATINGS AND CHARACTERISTIC CURVES SM5400 THRU SM5408

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

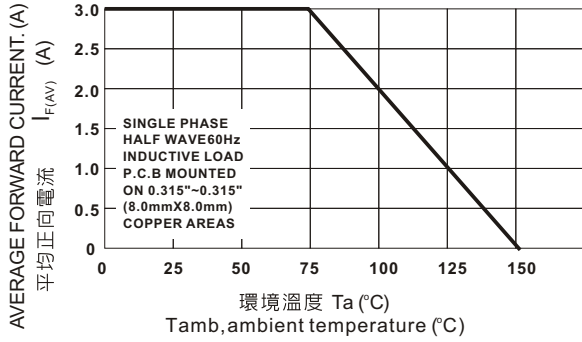


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

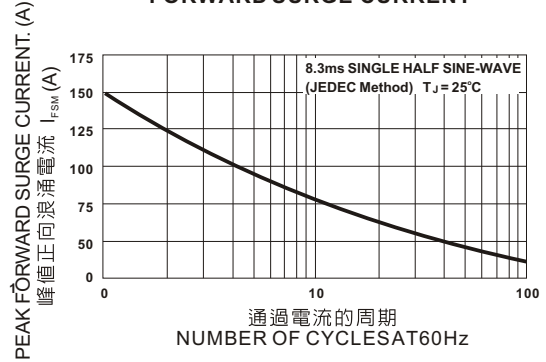


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

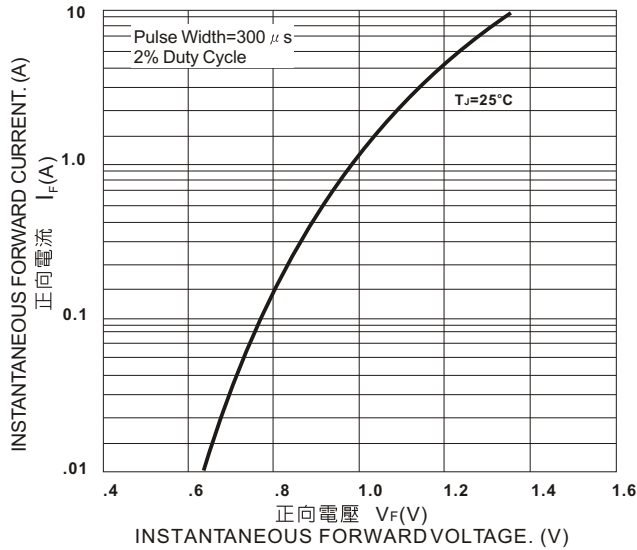


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

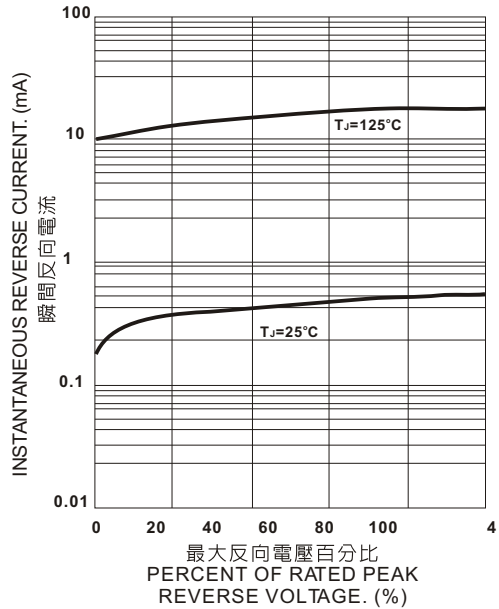


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

