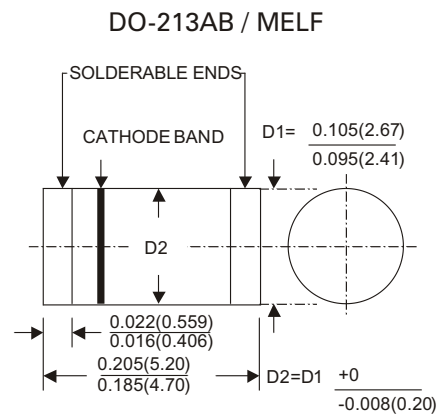


# SM4001 thru SM4007

## SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIERS



Dimension in inches (millimeters)

### FEATURES

- Ideal for surface mounted applications
- Easy pick and place
- Low leakage current
- Glass passivated chips
- Metallurgically bonded construction
- 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 : 0.12gram

### 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	SM4001	SM4002	SM4003	SM4004	SM4005	SM4006	SM4007	UNITS
Maximum Current Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current@ $T_T=75^\circ\text{C}$	$I_{(AV)}$	1.0							Amps
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A	$V_F$	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							$\mu\text{A}$
Typical Junction Capacitance (Note 1)	$C_J$	9							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	50							$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range $T_J, T_{STG}$	$T_{STG}$	-65 to +150							$^\circ\text{C}$

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### RATINGS AND CHARACTERISTIC CURVES SM4001 THRU SM4007

