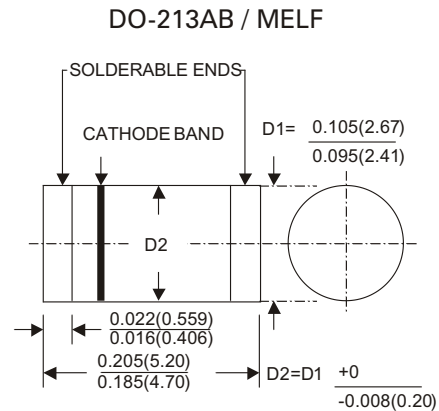


SM4001 thru SM4007

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@ $T_T=75^\circ C$	$I_{(AV)}$	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 @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	5.0 100							μA
Typical Junction Capacitance (Note 1)	C_J	9							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	50							$^\circ C / W$
Operating and Storage Temperature Range T_J, T_{STG}	T_{STG}	-65 to +150							$^\circ C$

SM4001 thru SM4007

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIERS

RATINGS AND CHARACTERISTIC CURVES SM4001 THRU SM4007

