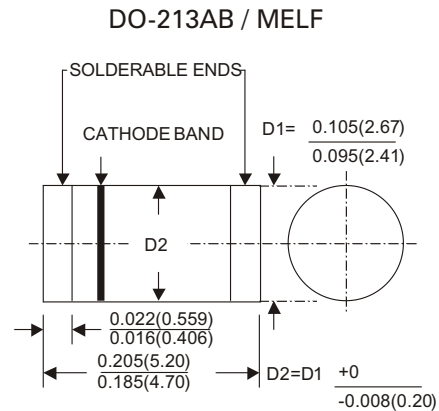


SFM101 thru SFM108

SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIERS



Dimension in inches (millimeters)

FEATURES

- Ideal for surface mounted applications
- Easy pick and place
- Low leakage current
- Glass passivated chips
- Fast switching
- 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, Method 208

Polarity : Red Color band on body denotes cathode

Mounting position : Any

Weight : 0.12gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temp. unless otherwise specified
Single phase, half sine wave, 60Hz, resistive or inductive load

	SYMBOL	SFM 101	SFM 102	SFM 103	SFM 104	SFM 105	SFM 106	SFM 107	SFM 108	UNITS	
Maximum Current Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	500	600	Volts	
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	350	420	Volts	
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	500	600	Volts	
Maximum Average Forward Rectified Current 375" , (9.5mm) lead length at $T_T=55^\circ\text{C}$	$I_{(AV)}$	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	1.0			1.3			1.7		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
Maximum Reverse Recovery Time (Note 1)	T_{RR}	35								nS	
Typical Junction Capacitance (Note 2)	C_J	50				25					pF
Typical Junction Capacitance	$R_{\theta JA}$ $R_{\theta JC}$	60				20					$^\circ\text{C} / \text{W}$
Operating Temperature Range T_J	T_J	-65 to +125								$^\circ\text{C}$	
Storage Temperature Range T_{STG}	T_{STG}	-65 to +150								$^\circ\text{C}$	

NOTES :

1. Reverse Recovery Test Conditions : $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C

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RATING AND CHARACTERISTICS CURVES SFM101 THRU SFM108

