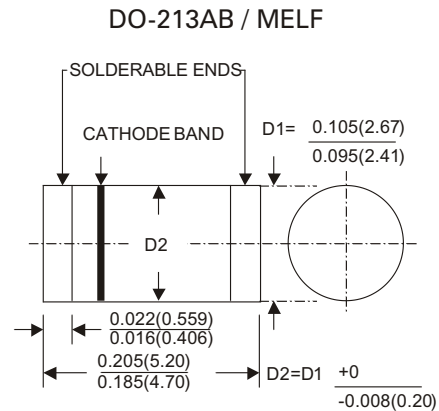


SM5391 thru SM5399

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	SM5391	SM5392	SM5393	SM5394	SM5395	SM5396	SM5397	SM5398	SM5399	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 $T_T=55^\circ\text{C}$	$I_{(AV)}$	1.5									Amps
Peak Forward Surge Current Single Sine-Wave on Rated Load (JEDEC Method)	I_{FSM}	50									Amps
Maximum Instantaneous Forward Voltage Drop at 1.5A 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	$R_{\theta JA}$ $R_{\theta JL}$	75 30									$^\circ\text{C} / \text{W}$
Typical Junction capacitance	C_J	12									pF
Operating Junction And Storage Temperature Range	T_J T_{STG}	-55 to +150									$^\circ\text{C}$

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RATINGS AND CHARACTERISTIC CURVES SM5391 THRU SM5399

