

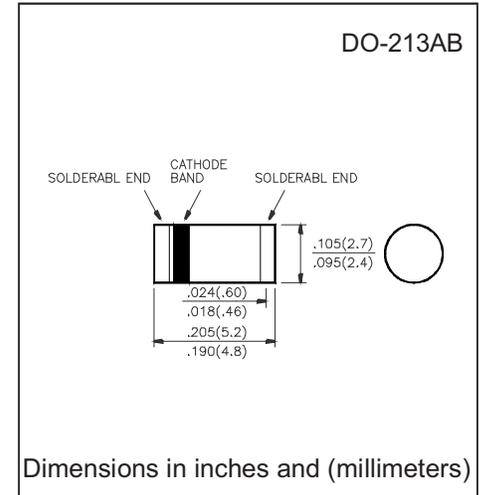
## SURFACE MOUNT GLASS PASSIVATED RECTIFIER

### FEATURES

- For surface mounted applications
- Glass passivated chip junction
- Low leakage current
- Plastic package has underwrites laboratory flammability Classification 94V-0  
High temperature soldering guaranteed
- 250°C/10 second at terminals

### MECHANICAL DATA

- Case: molded plastic Polarity:
- band indicate cathode
- Mounting position: Any
- Weight: 0.12 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

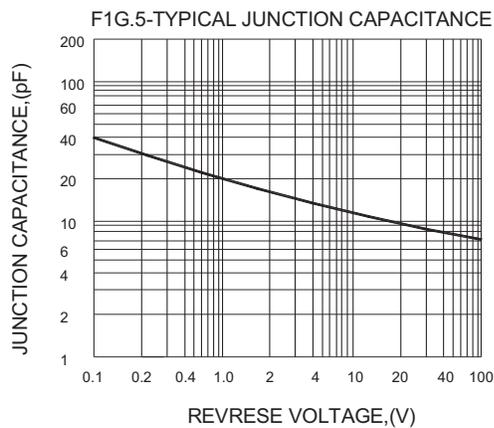
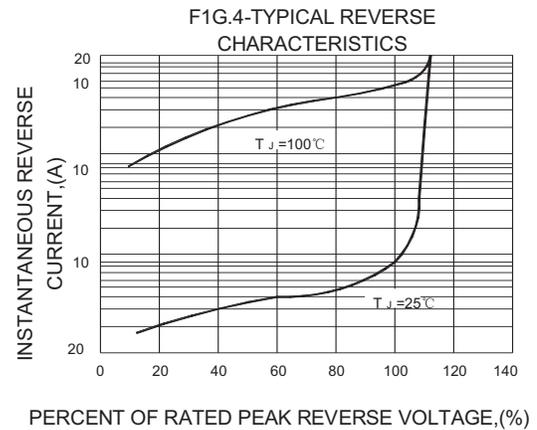
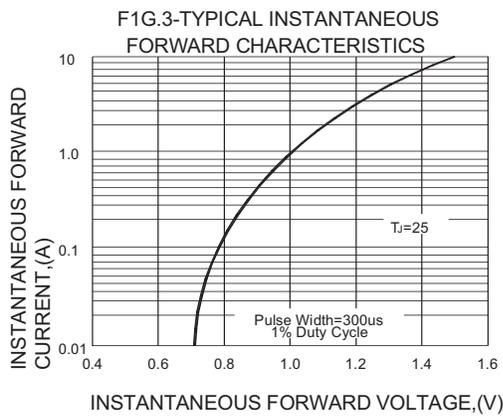
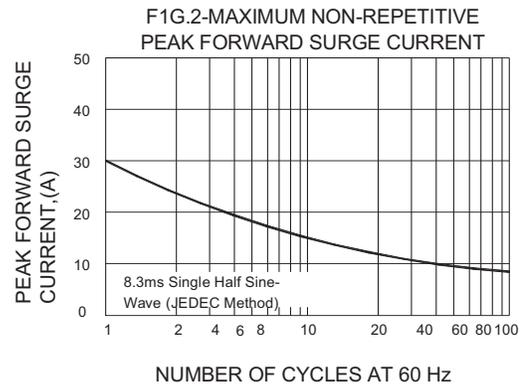
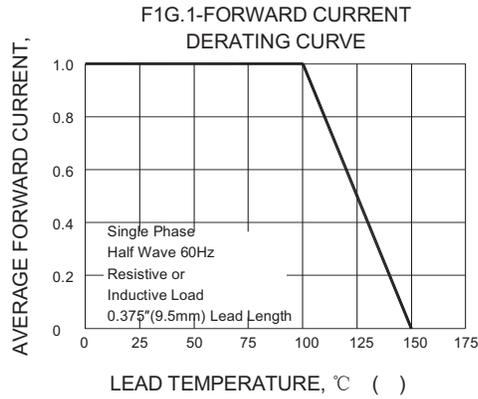
PARAMETER	SYMBOLS	SM 4001	SM 4002	SM 4003	SM 4004	SM 4005	SM 4006	SM 4007	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_T=100^\circ\text{C}$	$I_{(AV)}$	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 at rated DC Blocking Voltage at	$T_A = 25^\circ\text{C}$	5.0							$\mu\text{A}$
	$T_A = 125^\circ\text{C}$	100							
Typical Junction Capacitance (Note 1)	$C_j$	15							PF
Revers Recovery Time	$T_{rr}$	1.8							$\mu\text{S}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							$^\circ\text{C}$
Typical Junction Resistance (NOTE 1)	$R_{\theta JA}$	85							$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	30							

#### Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts DC.
2. Thermal resistance from Junction to terminal  $6.0\text{mm}^2$  copper pads to each terminal.

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### RATINGS AND CHARACTERISTIC CURVES SM4001 - SM4007



#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.