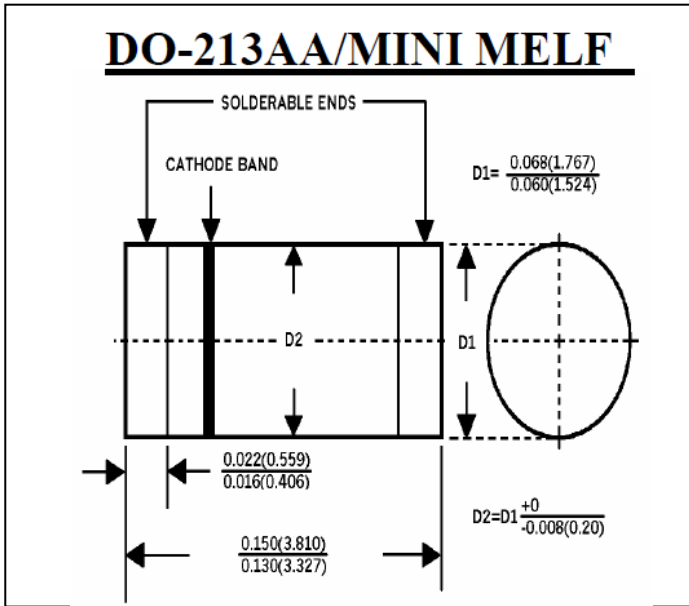


Surface Mount Glass Passivated Silicon Rectifiers



Features

- V_R 50-1000V
- $I_{F(AV)}$ 1.0Amps

■ Limiting Values (Absolute Maximum Rating)

Parameter	Symbols	SM 4001	SM 4002	SM 4003	SM 4004	SM 4005	SM 4006	SM 4007	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	1.0							Amps
Peak Forward Surge Current Single Sine-wave on Rated Load (JEDEC Method)	IFSM	30.0							Amps
Maximum Instantaneous Forward Voltage Drop at 1.0A DC	VF	1.1							Volts
Maximum DC Reverse Current $T_a=25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_a=125\text{ }^\circ\text{C}$	IR	5.0 50.0							mA
Typical Thermal Resistance	$R_{\theta JA}$	75							$^\circ\text{C/W}$
Typical Junction Capacitance	CJ	15							pF
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150							$^\circ\text{C}$



SM4001 THRU SM4007

■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SM4001 THRU SM4007	F1	Approximate 0.13	5000	10000	40000/80000	13" reel

■ Characteristics(Typical)

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

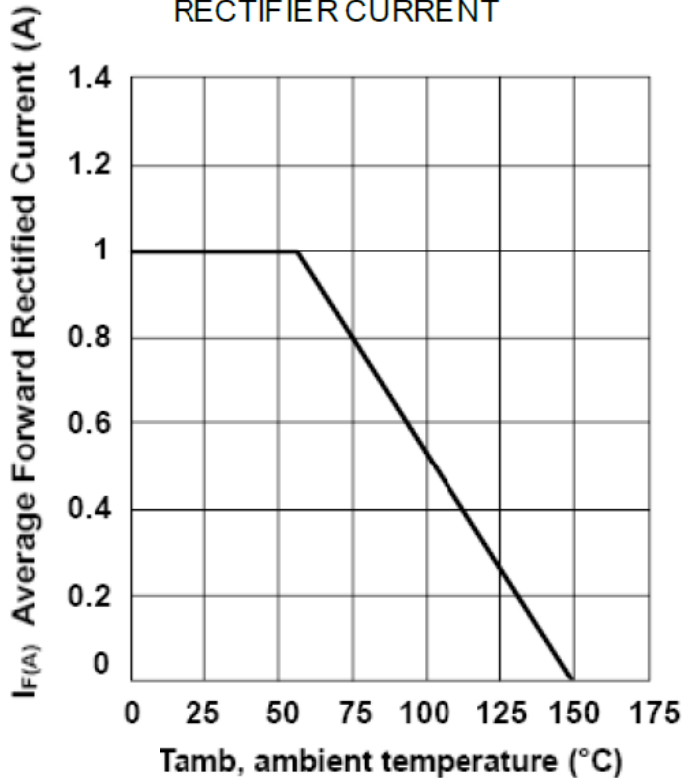
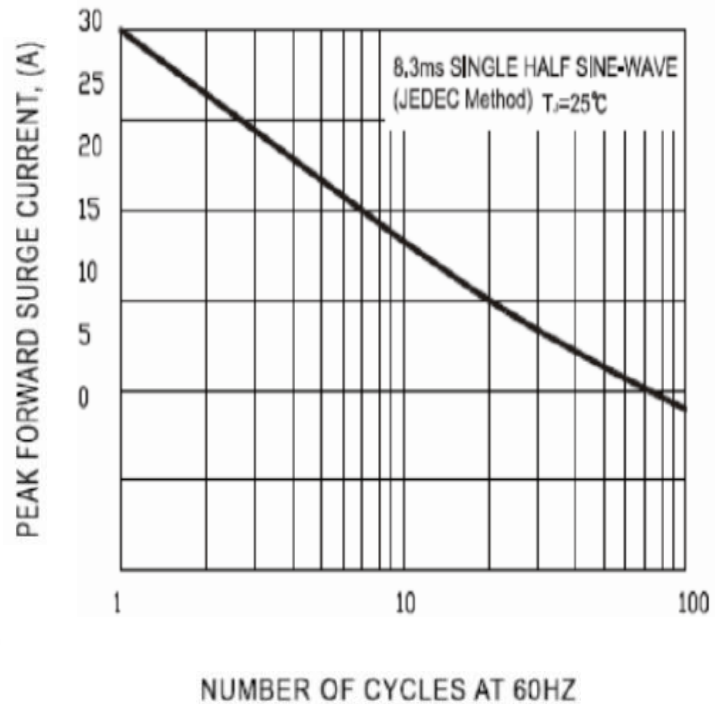


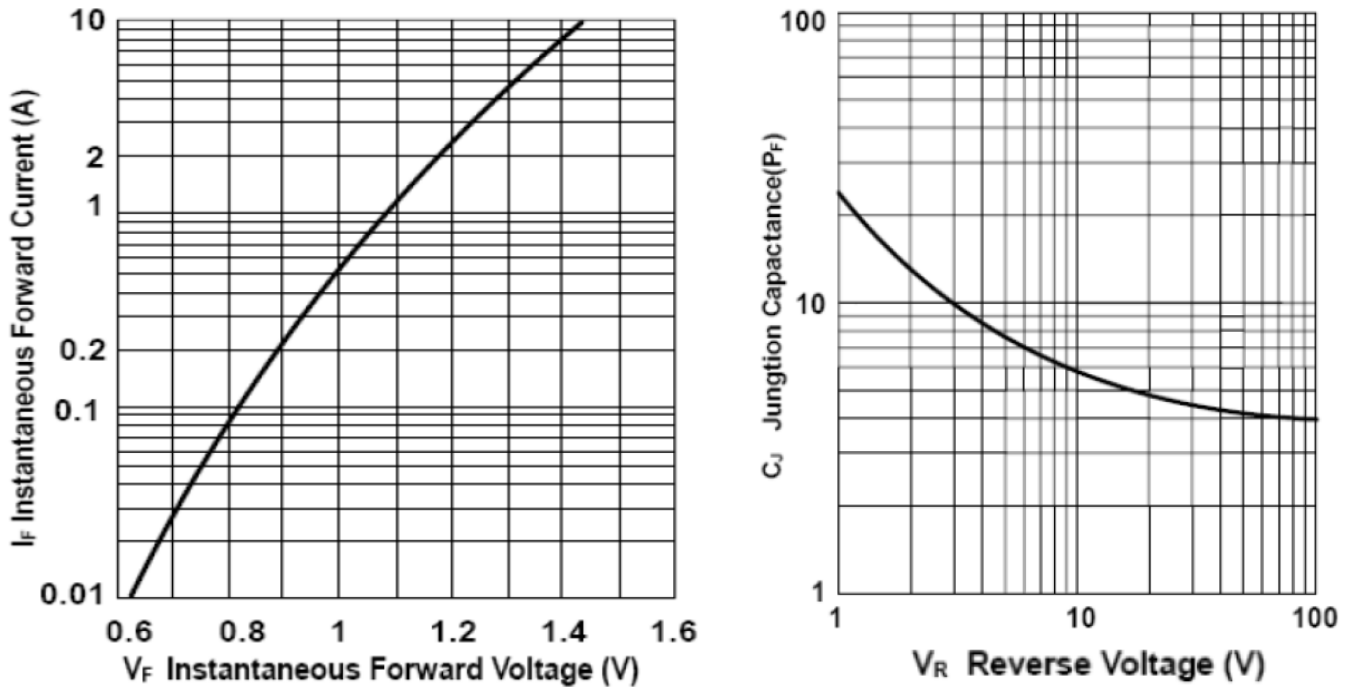
FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT





SM4001 THRU SM4007

FIG. 3 – TYPICAL FORWARD CHARACTERISTICS



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