

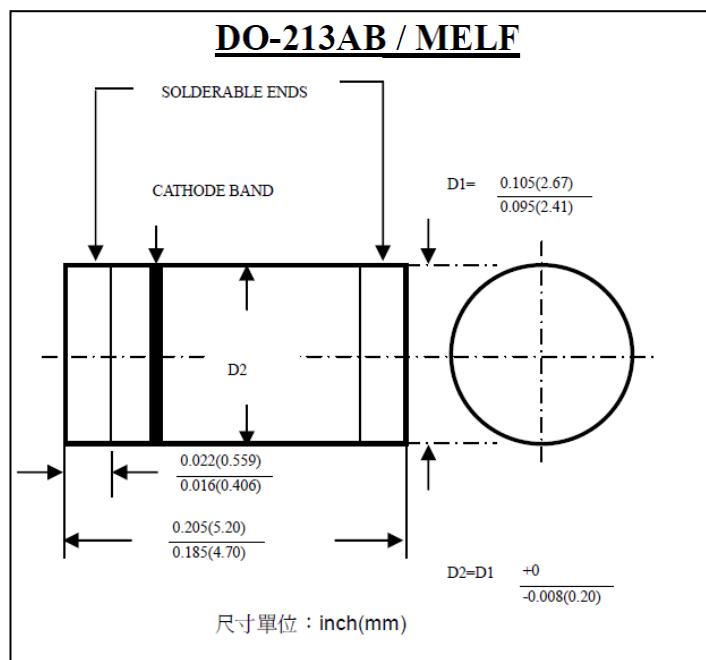


Surface Mount Glass Passivated Silicon Rectifiers

■ Features

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

■ External and internal structure



■ Maximum Ratings and Electrical characteristics

	SYMBOL	SM 4001	SM 4002	SM 4003	SM 4004	SM 4005	SM 4006	SM 4007	UNITS
Maximum Current 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 at Rated DC Blocking Voltage	IR	5.0 50.0							mA
Typical Thermal Resistance	RθJA	75							°C/W
VR= 4.0V, f = 1MHZ Typical Junction Capacitance	CJ	15							pF
Operating Junction and Storage Temperature Range	TJ, TS TG	-55 to +150							°C



■ Characteristics(Typical)

FIG. 1- 輸出電流降額曲線
FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

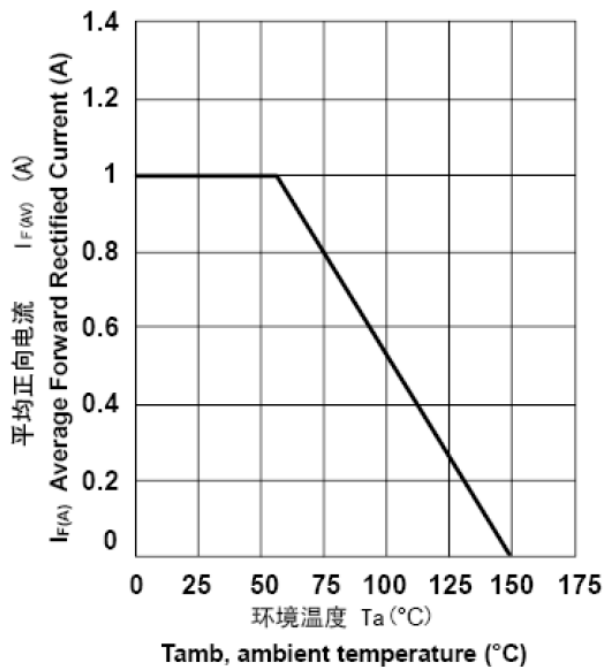


FIG. 2 –浪涌特性曲線 (最大值)
FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

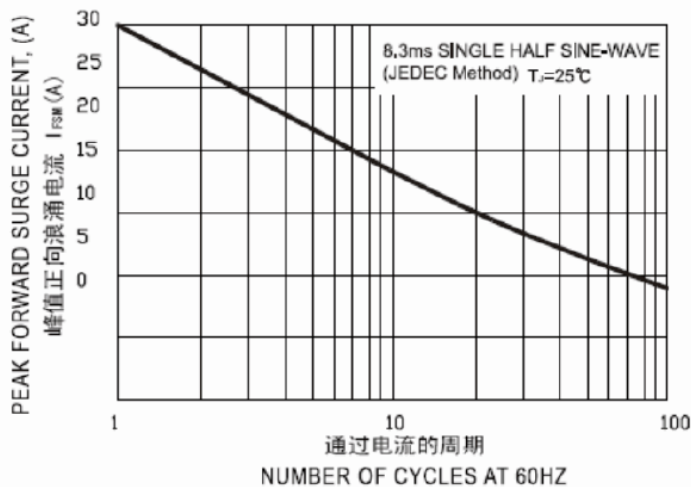


FIG. 4 –表面電容(典型值)
FIG. 4 – TYPICAL JUNCTION CAPACITANCE

FIG. 3 –正向特性曲線(典型值)
FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

