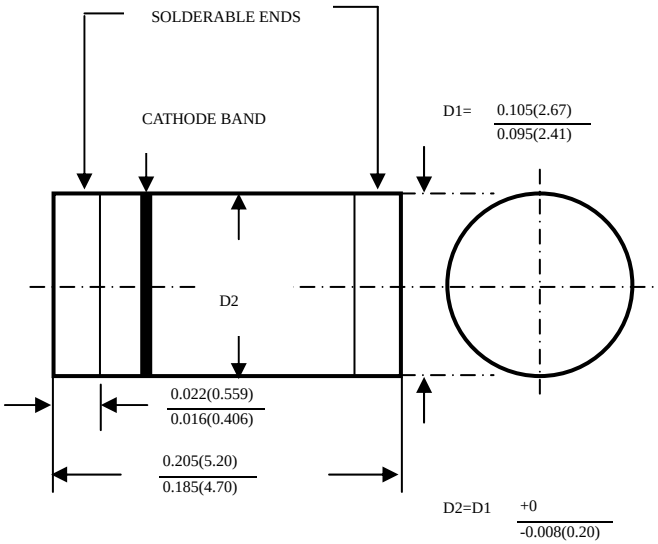
WEE Technology Company Limited

SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIERS

SM4001 THRU SM4007

DO-213AB / MELF



Dimension inches (millimeters)

FEATURES

- Ideal for surface mounted application
- Low reverse leakage
- High forward surge capability.
- High temperature soldering guaranteed: 250℃/10 seconds/.375",(9.5mm) lead lengths

MECHANICAL DATA

- Case:Glass Case melf
- Terminals: Solder Plated
- Polarity: color band on body denotes cathode
  Weight: 0.1296 gram
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ Ambient temp. Unless otherwise specified.

Single phase, half sine wave, 60HZ, resistive or inductive load.

For capacitive load, derate current by 20%

	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	70	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
1.0A Maximum Instantaneous Forward Voltage Drop at 1.0A DC	VF	1.1							Volts
Maximum DC Reverse Current T_A=25 ℃ at Rated DC Blocking Voltage T_A=100 ℃	IR	5.0 50.0							mA
Typical Thermal Resistance	RθJA	75							℃/W
VR= 4.0V,f = 1MHZ Typical Junction Capacitance	CJ	15							pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150							℃

RATING AND CHARACTERISTIC CURVES SM4001 THRU SM4007

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

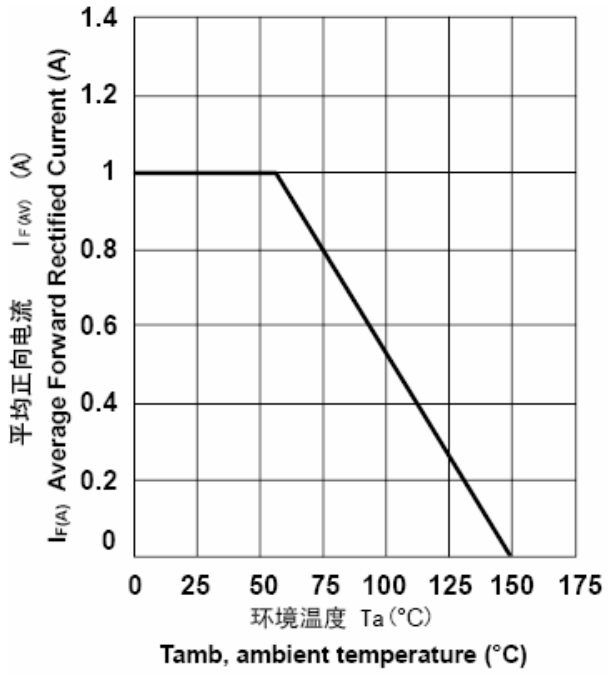


FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

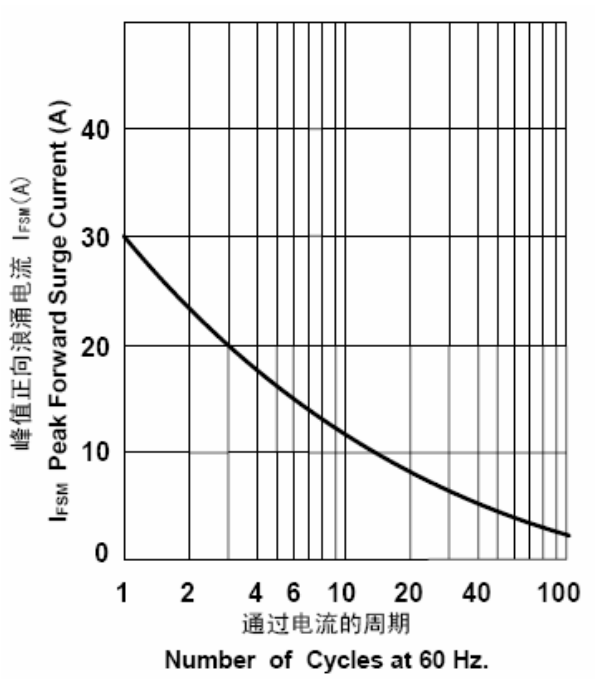


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

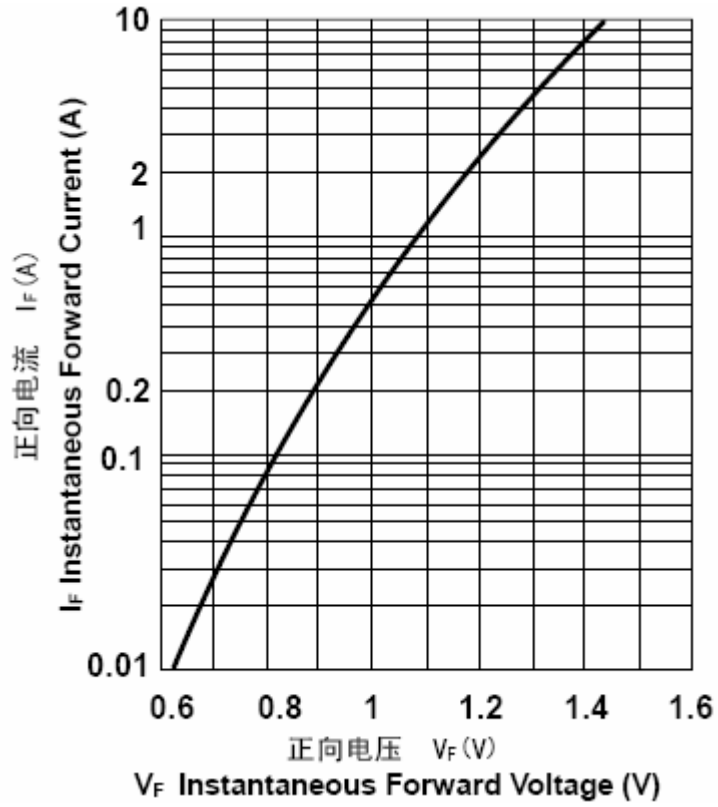


FIG. 4 –TYPICAL JUNCTION CAPACITANCE