

SM5400 THRU SM5407

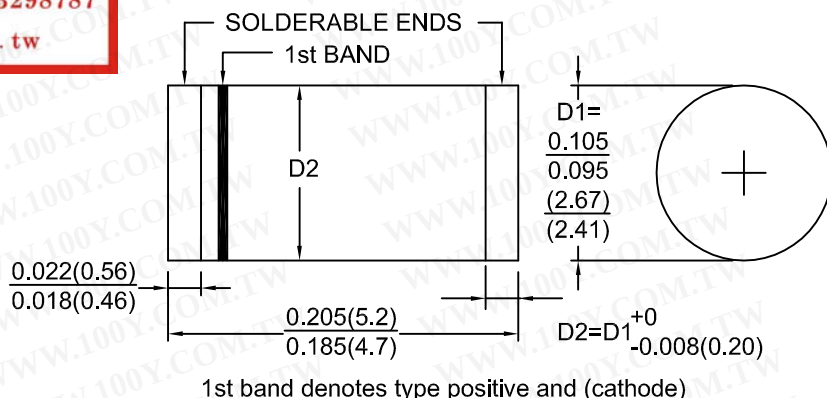
GLASS PASSIVATED RECTIFIERS

FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Glass passivated junction

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

MELF / DO-213AB



MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.116 grams, 0.0046 ounce

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

Characteristic	Symbol	SM 5401	SM 5402	SM 5403	SM 5404	SM 5405	SM 5406	SM 5407	Units
Maximum recurrent 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 .375" lead length at Ta=75° C	I _O	3.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	100							Amps
Maximum instantaneous forward voltage drop at 3.0 A	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	5.0 100.0							μ A
Typical thermal resistance (Note 2)	R _{th-JA}	30							° C/W
Typical junction capacitance (Note 1)	C _j	40							pF
Operating junction and storage temperature range	T _j , T _{stg}	-65 to +150							° C

NOTES:1. Measured at 1MHz and Applied reverse voltage of 4.0V_{DC}

2. Thermal Resistance from junction to ambient .375"(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES SM5400 THRU SM5407

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

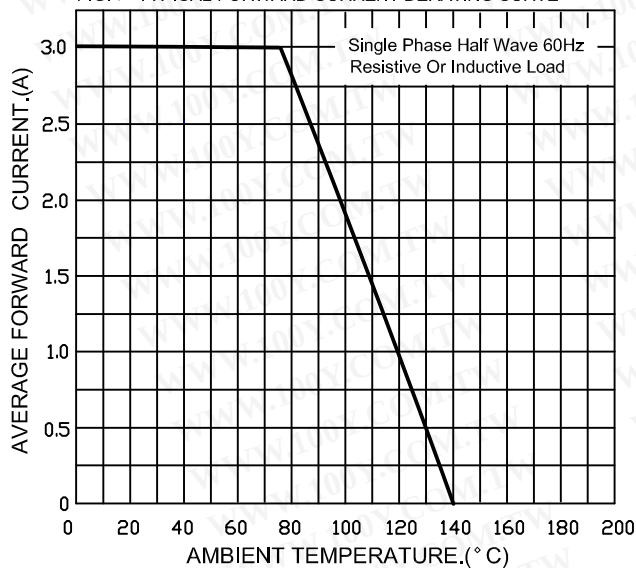
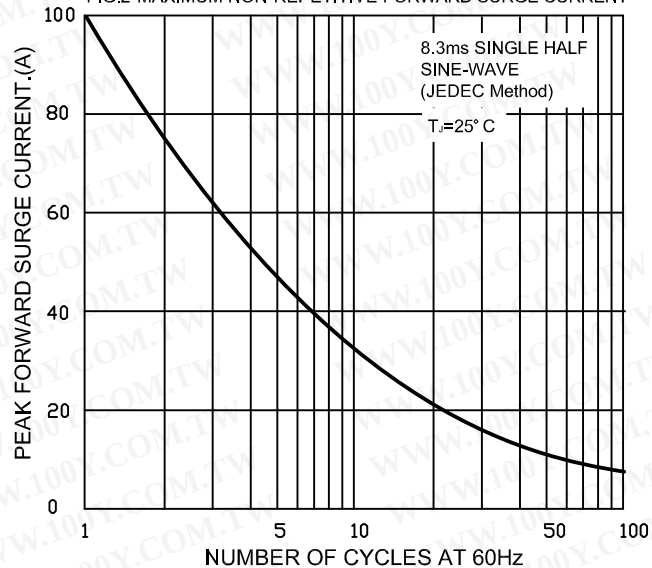


FIG. 2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.3-TYPICAL FORWARD CHARACTERISTICS

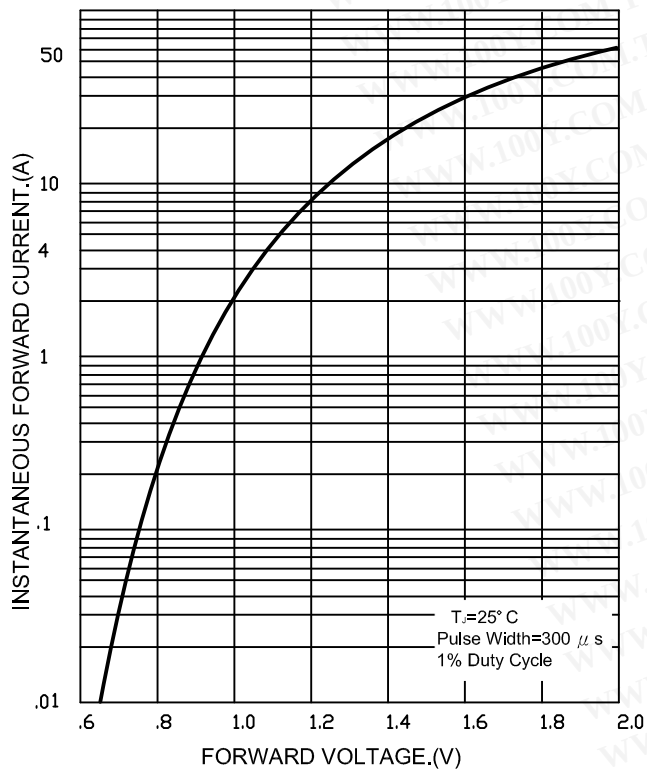


FIG.4-TYPICAL REVERSE CHARACTERISTICS

