

FEATURES:

- Fast switching
- Glass passivated chip
- Ideal for surface mounted applications
- Low leakage current
- Metallurgically bonded construction

MECHANICAL DATA

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

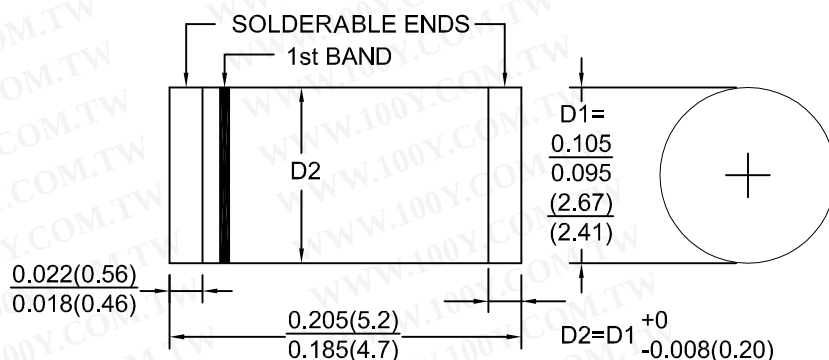
Terminals : Axial leads, solderable per MIL-STD-202, Method 208

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.116 gram, 0.0046 ounce

MELF/DO-213AB



1st band denotes type positive and (cathode)

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 %.

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)

Characteristic	Symbol	FSM 101	FSM 102	FSM 103	FSM 104	FSM 105	FSM 106	FSM 107	Units
Maximum recurrent 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 at Ta=55° C	IO	1.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	30.0							Amps
Maximum instantaneous forward voltage drop at 1.0 A	VF	1.3							Volts
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=125° C	IR	5.0 100.0							μ A
Maximum full load reverse current, full cycle average, Ta=55° C	IR(AV)	50.0							μ A
Maximum reverse recovery time (note 1)	trr	150				250	500		nS
Typical junction capacitance (note 2)	Cj	15							pF
Typical thermal resistance	Rth-JA Rth-JL	75.0 30.0							° C/W
Operating junction and storage temperature range	Tj, Tstg	-65 to +150							° C

NOTES:1. Reverse recovery test condition; I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

2. Measured at 1MHz and Applied reverse voltage of 4.0V.DC

RATINGS AND CHARACTERISTIC CURVES FSM101 THRU FSM107

