

SM5400 THRU SM5407

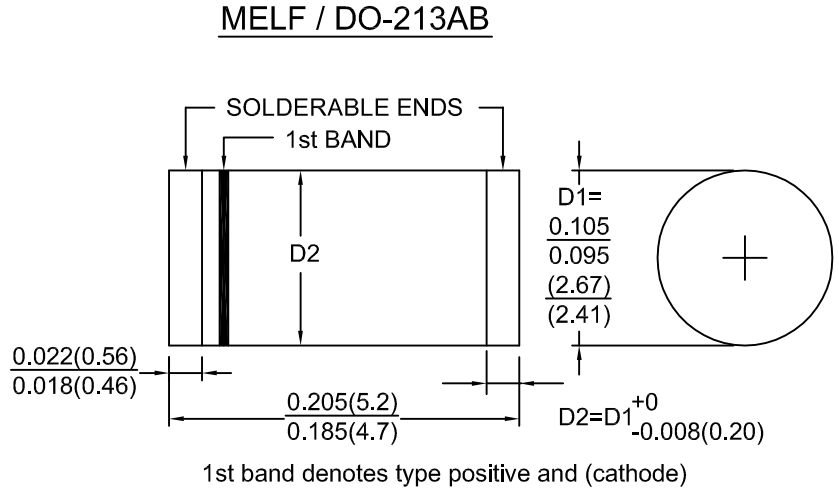
GLASS PASSIVATED RECTIFIERS

FEATURES:

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

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	SM	SM	SM	SM	SM	SM	Units
		5401	5402	5403	5404	5405	5406	5407	
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 .375" lead length at Ta=75° C	IO	3.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	100							Amps
Maximum instantaneous forward voltage drop at 3.0 A	VF	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5.0							μ A
Ta=25° C		100.0							
Typical thermal resistance (Note 2)	Rth-JA	30							° C/W
Typical junction capacitance (Note 1)	Cj	40							pF
Operating junction and storage temperature range	Tj, Tstg	-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.

