

SM2001 THRU SM2007

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

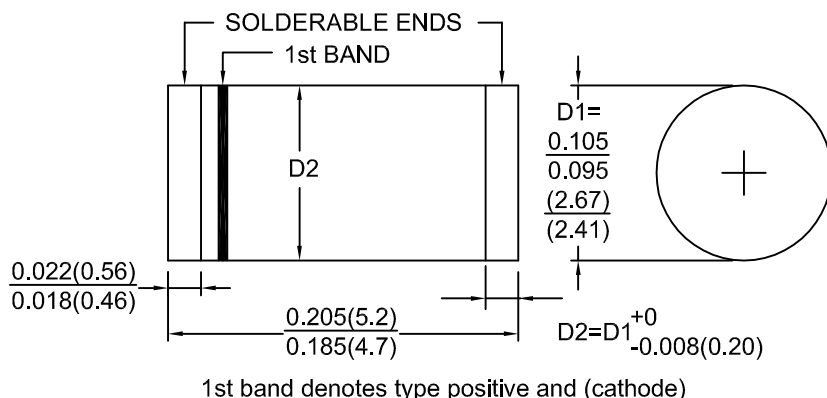
FEATURES:

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Glass passivated Chip

MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy
 Terminals : Plated terminals, solderable per MIL-STD-202, Method 208 guaranteed
 Polarity : Silver color band on body denotes cathode
 Mounting Position : Any
 Weight : 0.116 grams, 0.0046 ounce

MELF / DO-213AB



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 2001	SM 2002	SM 2003	SM 2004	SM 2005	SM 2006	SM 2007	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 at Ta=50° C	I _O	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	50.0							Amps
Maximum instantaneous forward voltage drop at 2.0	V _F	1.1							Volts
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=150° C	I _R	5.0 100							μ A
Operating junction temperature range	T _j	-65 to +150							° C
Storage temperature range	T _{stg}	-65 to +150							° C

RATINGS AND CHARACTERISTIC CURVES SM2001 THRU SM2007

