SM1200 THRU SM2000 SURFACE MOUNT GLASS PASSIVATED RECTIFIER

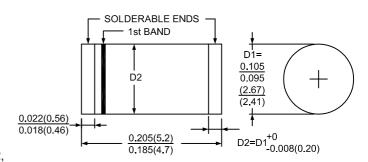
FEATURES

- Glass Passivated chip
- Low Forward Voltage Drop
- Low Leakage
- High Current Capability
- High Surge Current Capability
- Idle for surface mount applications
- Built-in strain relief

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 : Sliver color band on body denotes cathode
- Mounting Position : Any
- Weight: 0.116 grams, 0.0046 ounce
- Lead Free:For RoHS/Lead Free Version,
 Green molding compound as per IEC61249 Std

MELF / DO-213AB



1st band denotes type posltlve and (cathode)

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Charateristics @T_A=25℃ unless otherwise specified

Parameter Symbol	Symbol	SM1200	SM1400	SM1800	SM1600	SM2000	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	1200	1400	1800	1600	2000	V
Maximum RMS voltage	V_{RMS}	840	980	1120	1260	1400	V
Maximum DC blocking voltage	V_{DC}	1200	1400	1800	1600	2000	V
Maximum average forward rectified current	I _{F(AV)}	1.0					Α
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load	I _{Fsm}	30					А
Maximum instantaneous forward voltage at 1A	V _F	1.15					V
Maximum leakage current $T_J = 25^{\circ}C$ Maximum leakage current $T_J = 100^{\circ}C$	I _R	5 50					uA
Typical Junction Capacitance (Note1)	CJ	25		18		pF	
Typical thermal resistance (Note2)	RthA	≤50					°C/W
Operating temperature range	T _J	-55 to +175					°C
Storage temperature range	T _{STG}	-55 to +175					°C

Note: (1). Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC

(2). Thermal resistance from junction to ambient at , P.C.B. mounted.

Fig. 1 Rated forward current vs. ambient temperature

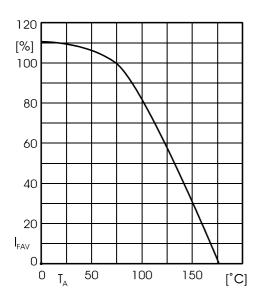


Fig. 2 Forward characteristics (typical values)

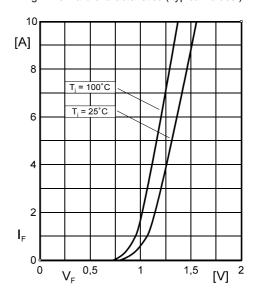


FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT

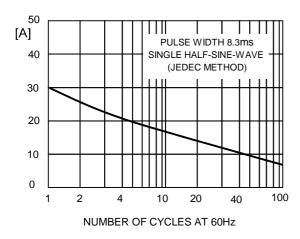
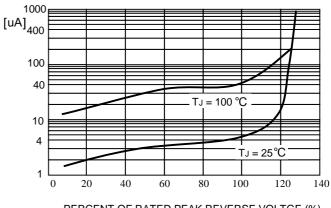


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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