

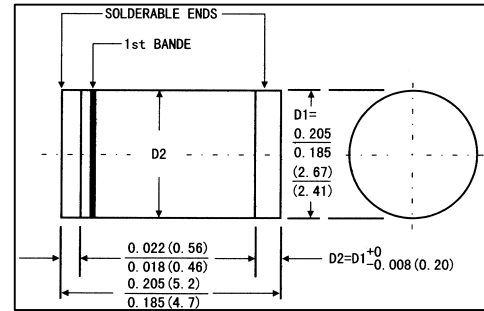
FEATURES

- . The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- . For surface mounted applications
- . Glass passivated junction
- . High temperature soldering guaranteed: 250°C/10 seconds, at terminals

MECHANICAL DATA

- . **Case:** JEDEC SMA(DO-214AB) molded plastic
- . **Terminals:** Lead solderable per MIL-STD-750,method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.0041 ounce, 0.116 gram

MELF(DO-213AB)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave 60Hz,resistive or inductive) load. For capacitive load,derate current by 20%)

	Symbols	SM 4001	SM 4002	SM 4003	SM 4004	SM 4005	SM 4006	SM 4007	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	100	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_A=75^\circ C$	$I_{(AV)}$	1.0							Amp
Peak forward surge current (8.3ms half sing wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0 A	V_F	1.1							Volts
Maximum reverse current at rated DC Blocking Voltage	$T_A=25^\circ C$	5.0							μA
	$T_A=125^\circ C$	50.0							
Typical Thermal Resistance	(Note 2) $R_{\theta JA}$	75.0							$^\circ C/W$
	(Note 3) $R_{\theta JL}$	30.0							
Typical Junction Capacitance(Note 1)	C_J	15.0							pF
Maximum DC Blocking Voltage temperature	T_A	+150.0							$^\circ C$
Operating and storage temperature range	$T_J T_{STG}$	-65 to +175							$^\circ C$

Notes: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

1.Thermal resistance from junction to ambient, 0.24 X 0.24"(6.0 X 6.0mm) copper pads to each terminals

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RATINGS AND CHARACTERISTIC CURVES SM4001 THRU SM4007

FIG.1-FORWARD CURRENT DERATING CURVE

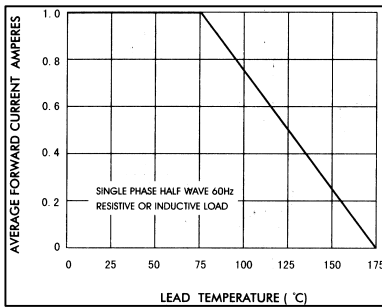


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

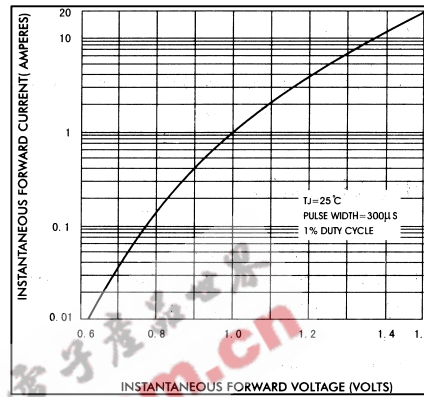


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

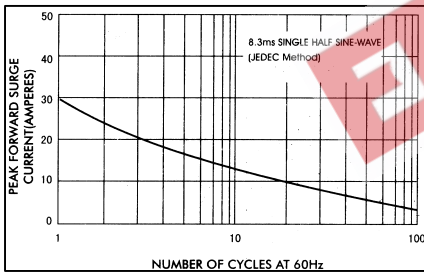


FIG.4-TYPICAL REVERSE CHARACTERISTICS

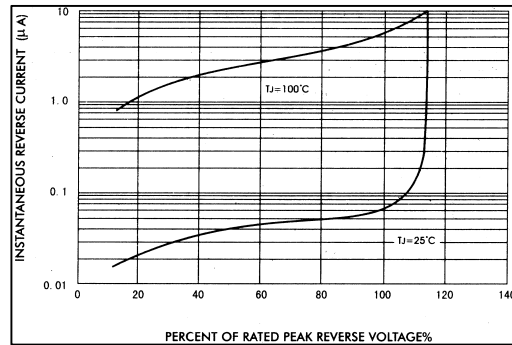


FIG.5-TYPICAL JUNCTION CAPACITANCE

