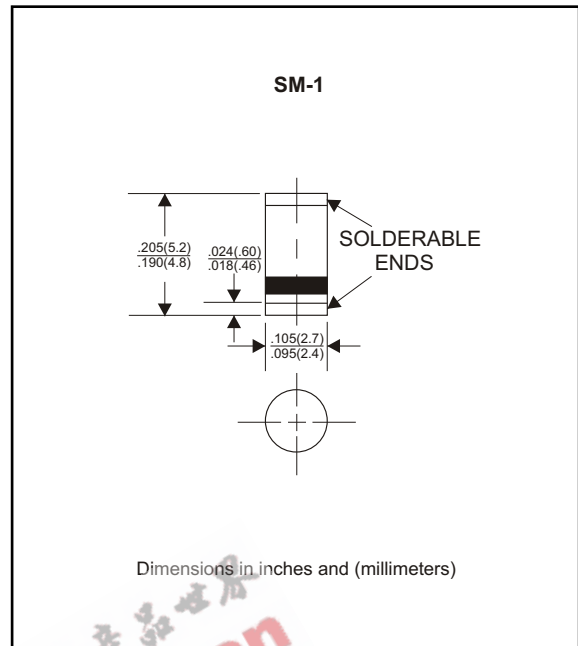


SM4001 THRU SM4007

Glass passivated type

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of ML-S-19500 / 228
- Low leakage current



Mechanical data

Case : Molded plastic, SMA (MELF)
 Terminals : Solder plated, solderable per ML-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.015 gram

MAXIMUM RATINGS (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I _O			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I _{FSM}			30	A
Reverse current	V _R = V _{RRM} T _A = 25°C	I _R			5.0	uA
	V _R = V _{RRM} T _A = 100°C				50	uA
Thermal resistance	Junction to ambient	R _{QJA}		50		°C / w
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C _J		15		pF
Storage temperature		T _{STG}	-55		+175	°C

SYMBOLS	MARKING CODE	V _{RRM} *1 (V)	V _{RMS} *2 (V)	V _R *3 (V)	V _F *4 (V)	Operating temperature (°C)
SM4001	-	50	35	50	1.1	-55 to +175
SM4002	-	100	70	100		
SM4003	-	200	140	200		
SM4004	-	400	280	400		
SM4005	-	600	420	600		
SM4006	-	800	560	800		
SM4007	-	1000	700	1000		

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (SM4001 THRU SM4007)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

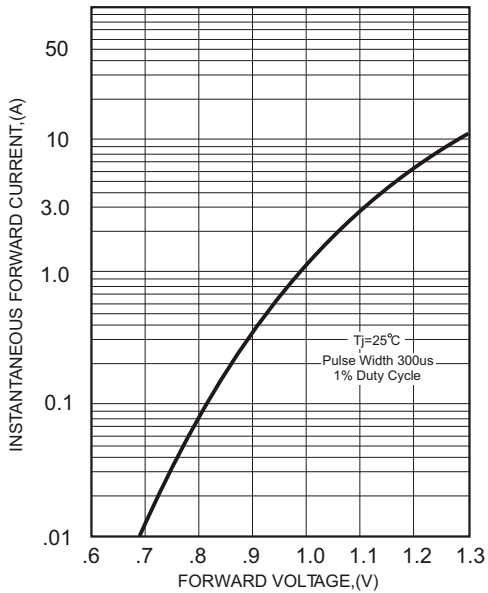


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

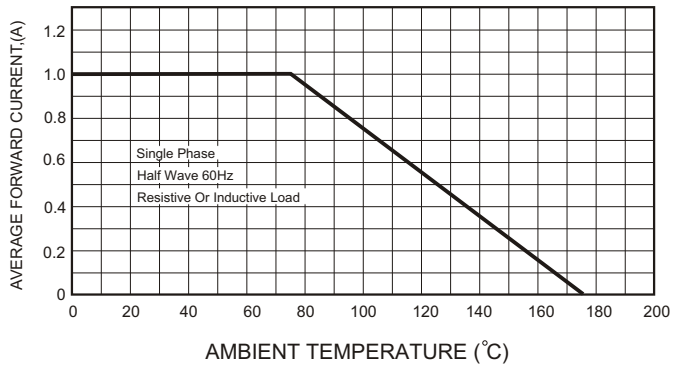


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

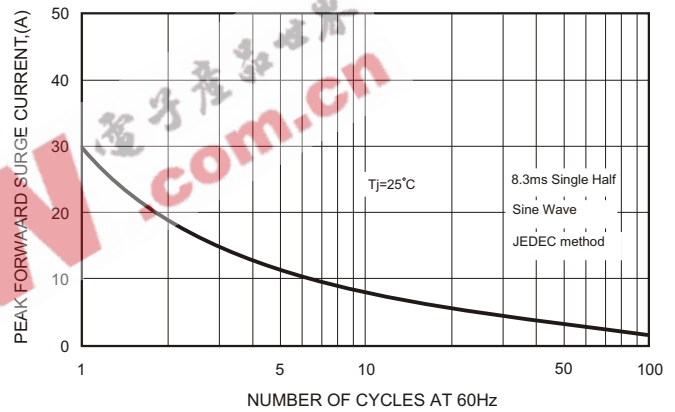


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

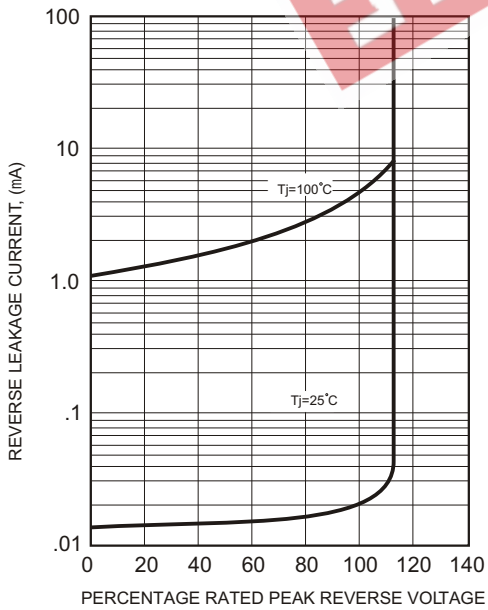


FIG.5-TYPICAL JUNCTION CAPACITANCE

