

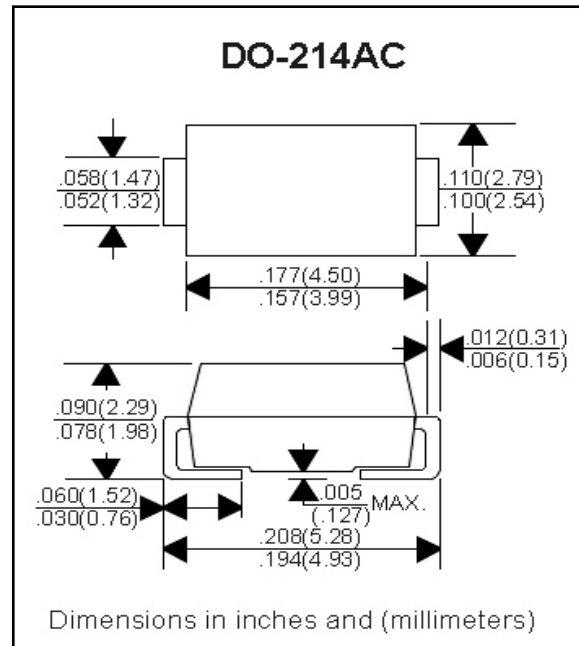
M1 THRU M7

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, JEDEC DO-214AC
 Terminals : Solder plated, solderable per ML-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.002 ounce, 0.064 gram



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

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	Ambient temperature = 75°C	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	uA
	V _R = V _{RRM} T _A = 100°C				50	uA
Thermal resistance	Junction to ambient	R _{JA}		30		°C / w
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C _J		12		pF
Storage temperature		T _{STG}	-55		+150	°C

MARKING CODE	V _{RRM} *1 (V)	V _{RMS} *2 (V)	V _R *3 (V)	V _F *4 (V)	Operating temperature (°C)
M1	50	35	50	1.1	-55 to +150
M2	100	70	100		
M3	200	140	200		
M4	400	280	400		
M5	600	420	600		
M6	800	560	800		
M7	1000	700	1000		

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

RATING AND CHARACTERISTIC CURVES (M1 THRU M7)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

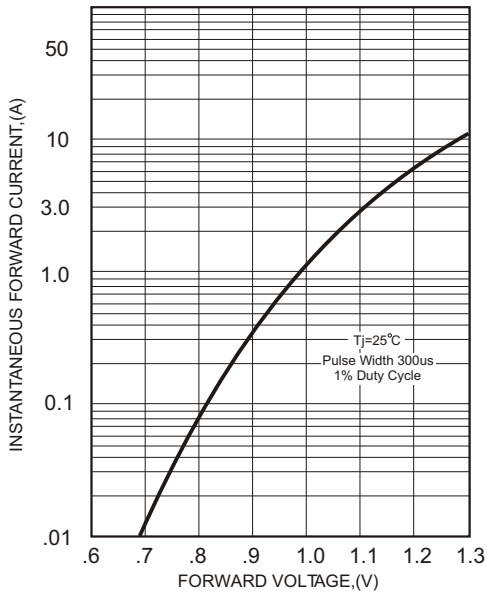


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

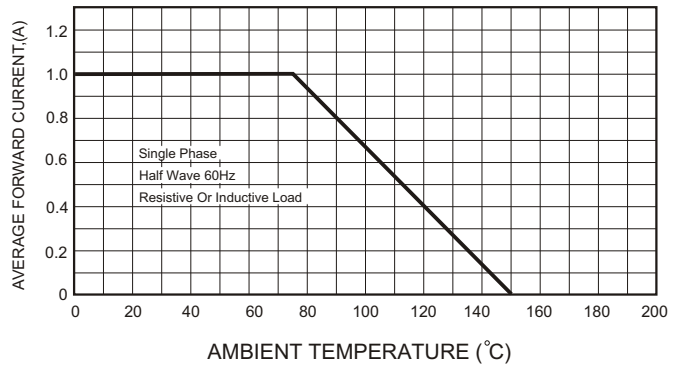


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



FIG.3 - TYPICAL REVERSE CHARACTERISTICS

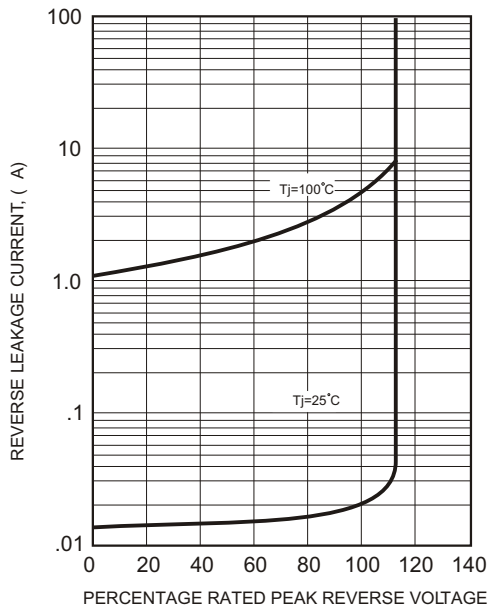


FIG.5-TYPICAL JUNCTION CAPACITANCE

