

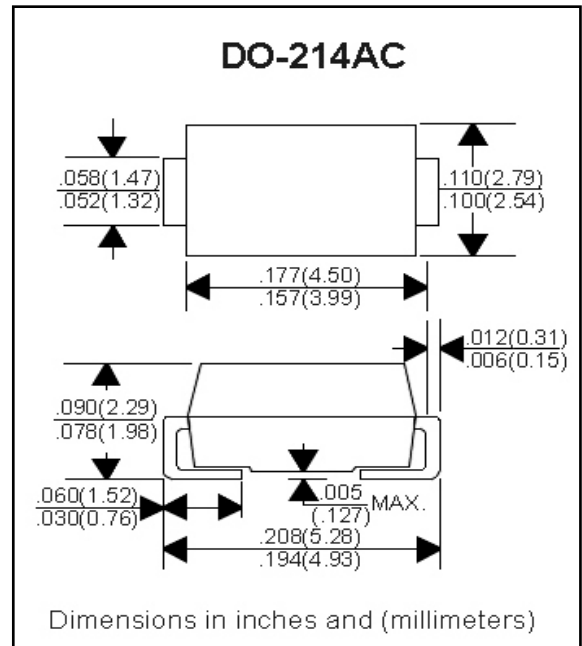
# M1 THRU M7

## 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 : Moulded 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<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	Ambient temperature = 75°C	I <sub>O</sub>			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I <sub>FSM</sub>			30	A
Reverse current	V <sub>R</sub> = V <sub>RRM</sub> T <sub>A</sub> = 25°C	I <sub>R</sub>			5	uA
	V <sub>R</sub> = V <sub>RRM</sub> T <sub>A</sub> = 100°C				50	uA
Thermal resistance	Junction to ambient	R <sub>JA</sub>		30		°C / w
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C <sub>J</sub>		12		pF
Storage temperature		T <sub>STG</sub>	-55		+150	°C

MARKING CODE	V <sub>RRM</sub> *1 (V)	V <sub>RMS</sub> *2 (V)	V <sub>R</sub> *3 (V)	V <sub>F</sub> *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

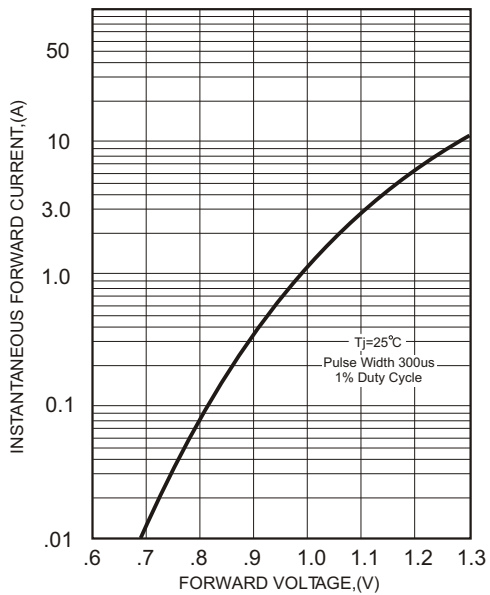


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

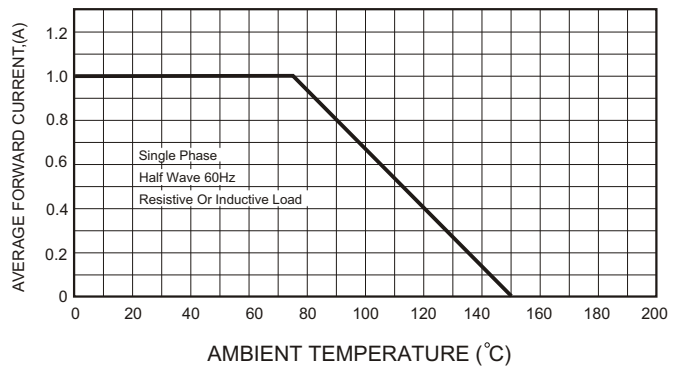


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

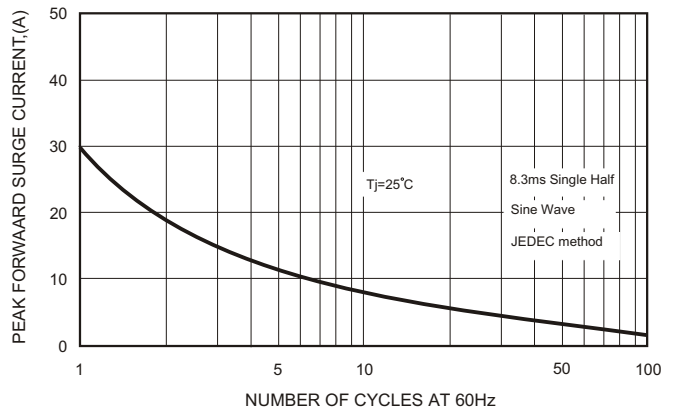


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

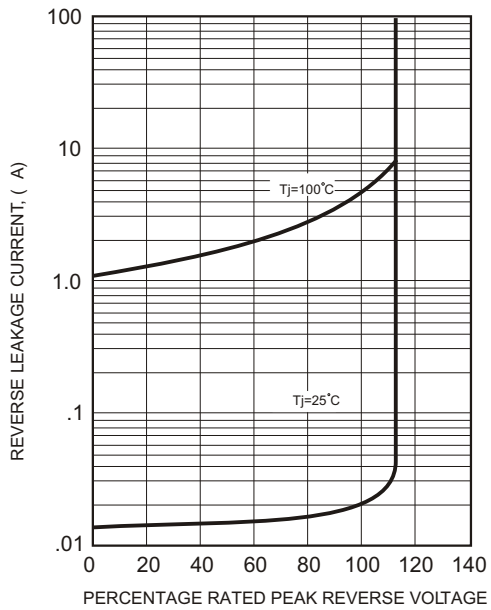


FIG.5-TYPICAL JUNCTION CAPACITANCE

