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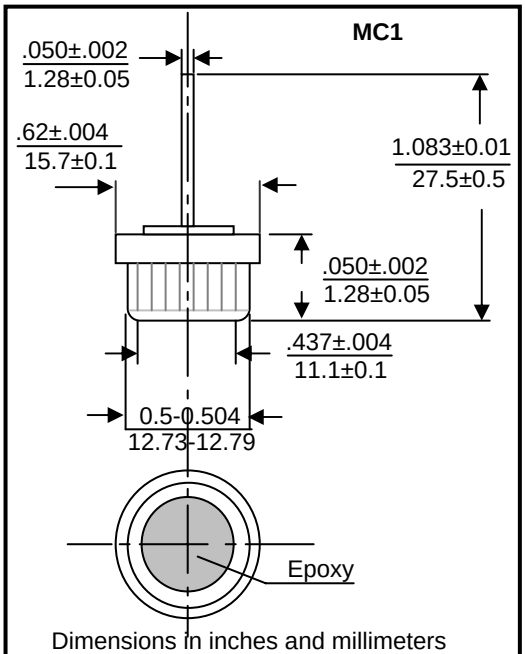
AM501 THRU AM506

PRESS FIT AUTOMOTIVE RECTIFIER(MOTOROLA)

VOLTAGE RANGE
100 TO 600 VOLTS
CURRENT 50AMPS

Features

- Low leakage
- Low forward voltage drop
- High current capability
- High forward surge current capability



Dimensions in inches and millimeters

Mechanical Data

- Case: Copper case
- Technology: cell with vcauum soldered
- Polarity: As marked of case bottom
- Lead: Plated lead, solderable per MIL-STD-202E method 208C
- Mounting: Press fit
- Weigth: 9.0 grams

Maximum Ratings and Electrical Charactristics

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

Parameters	Symbols	AM501	AM502	AM503	AM504	AM506	Units
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	300	400	600	Volts
Maximum RM S voltage	V_{RMS}	70	140	210	280	420	Volts
Maximum DC blocking voltage	V_{DC}	100	200	300	400	600	Volts
Maximum Average rectified forward current at T_C=110°C	I_o	50					Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (JE DEC Method)	I_{FSM}	500					Amps
Rating for fusing(t<8.3ms)	I^2t	1494					A^2S
Maximum instantaneous forward voltage drop at 100A	V_F	1.05					Volts
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=150°C	I_R	5.0 450					uA
Typical thermal resistance	$R_{\theta JC}$	0.8					°C/W
Operating and storage temperature	T_J,T_{STG}	-65 to +175					°C

Notes: 1.Enough heatsink must be considered in application.

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Ratings and Characteristic Curves

FIG.1–TYPICAL FORWARD CURRENT DERATING CURVE

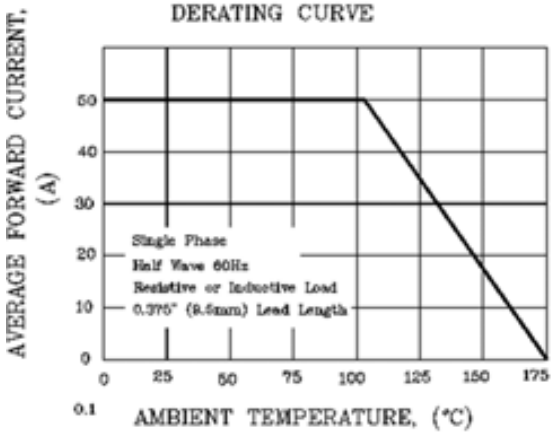


FIG.2–MAXIMUM NON–REPETITIVE PEAK FORWARD SURGE CURRENT

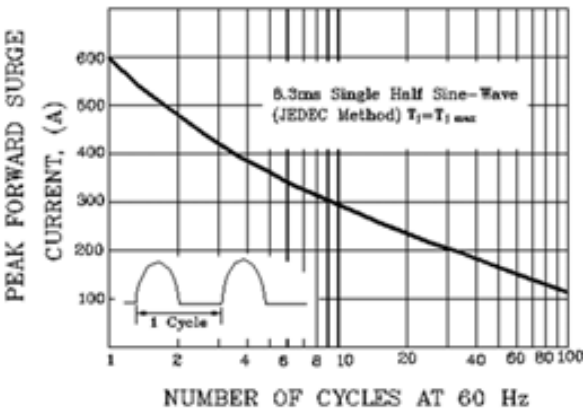


FIG.3–TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

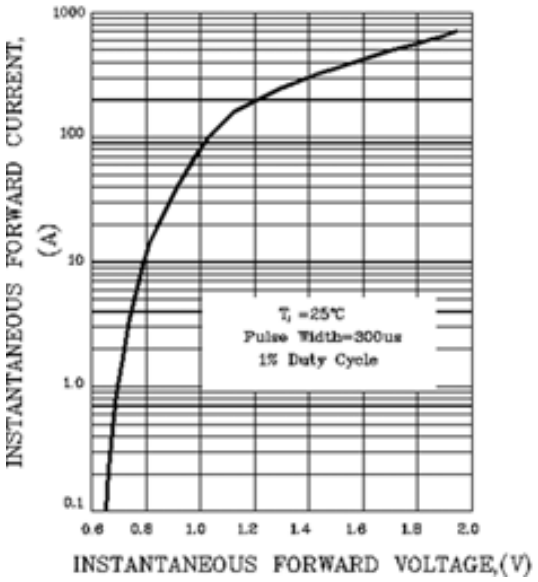


FIG.4– FORWARD POWER DISSIPATION

