

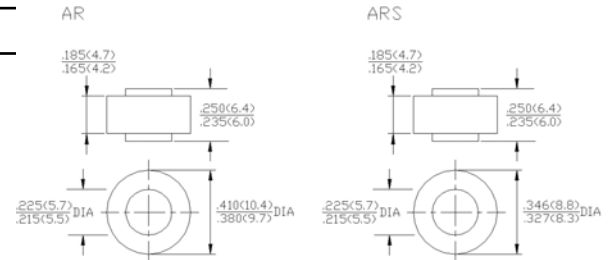
Technical Specification:

Features:

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

Mechanical Data:

- ◆ Technology: Vacuum soldered.
- ◆ Case: Transfer molded plastic.
- ◆ Polarity: Color ring denotes cathode.
- ◆ Lead: Plated lead, solderable per MIL-STD-202E method 208C
- ◆ Mounting position: Any
- ◆ Weight: 0.064 ounces, 1.8 grams



Maximum Ratings and Electrical Characteristics

- ◆ 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	GAR351 GARS351	GAR352 GARS352	GAR353 GARS353	GAR354 GARS354	GAR356 GARS356	Units
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	300	400	600	Volts
Maximum RMS 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 $T_c = 105^\circ\text{C}$	I_{AV}	35					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400					Amps
Rating for fusing ($t \leq 8.3\text{ms}$)	I^2t	664					A^2S
Maximum instantaneous forward voltage drop at 100A	V_F	1.10					Volts
Maximum DC reverse current at rated DC blocking voltage $T_a = 25^\circ\text{C}$ $T_c = 150^\circ\text{C}$	I_R	5.0 450					μA
Typical thermal resistance	$R_{\theta JL}$	1.0					$^\circ\text{C/W}$
Operating and storage temperature range	T_{oj}, T_{STG}	-65 to +175					$^\circ\text{C}$

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

■Ratings and Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

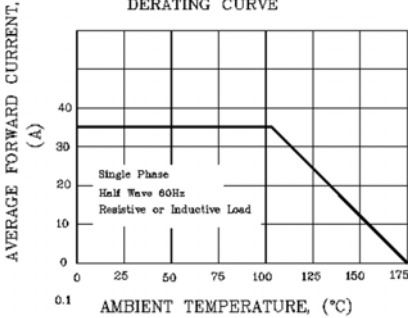


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

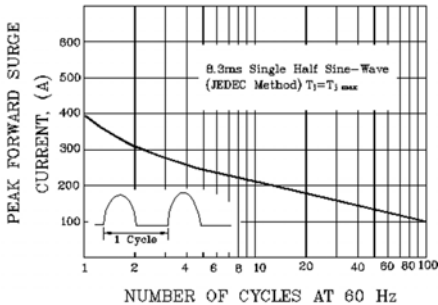


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

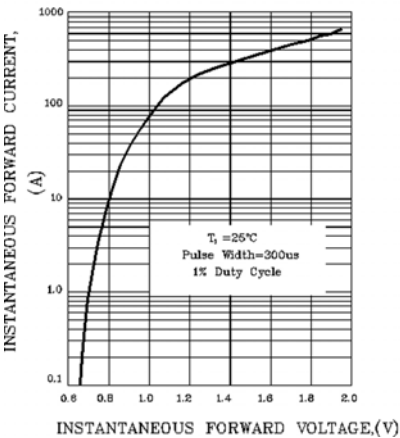


FIG.4- FORWARD POWER DISSIPATION

