BUTTON AUTOMOTIVE RECTIFIER

AR3505 THRU AR358
ARS3505 THRU ARS358

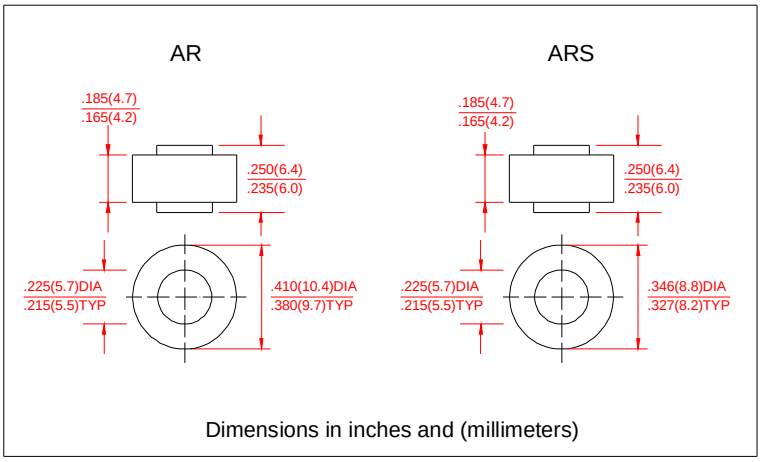
VOLTAGE RANGE **50 to 600 Volts**
CURRENT **35.0 Amperes**

FEATURES

- Low Leakage
- Low forward voltage drop
- High current capability
- High forward surge current capacity

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Plated slug , solderable per MIL-STD-202E method 208C
- Polarity: Color ring denotes cathode end
- Mounting Position: any
- Weight: 0.064 ounces, 1.82 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60HZ, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	AR3505 ARS3505	AR351 ARS351	AR352 ARS352	AR354 ARS354	AR356 ARS356	AR358 ARS358	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	Volts
Maximum Average Forward Rectified Current, At Tc=110℃	I_O	35.0						Amps
Peak Forward Surge Current 3.3mS single half sine wave superimposed on Rated load (JEDEC method)	I_{FSM}	500						Amps
Maximum instantaneous Forward Voltage at 80A	V_F	1.08						Volts
Maximum DC Reverse Current at Rated TA=25℃	I_R	5.0						UA
DC Blocking Voltage per element TA=100℃		250						
Typical Thermal Resistance	$R_{\theta JC}$	1.0						℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	(-65 to +175)						℃
Polarity and voltage demotion color band		Red	Yellow	Silver	Green	Green	Blue	

Notes:

1. Enough heatsink must be considered in application.

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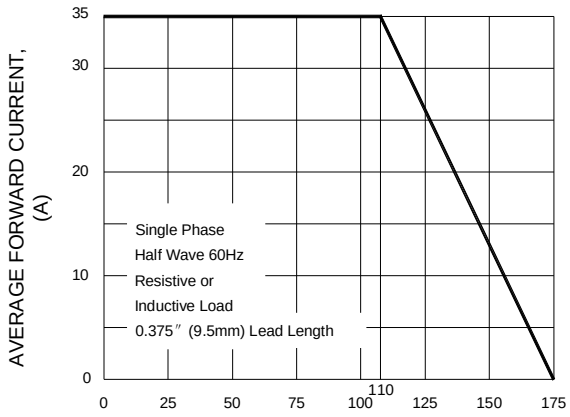
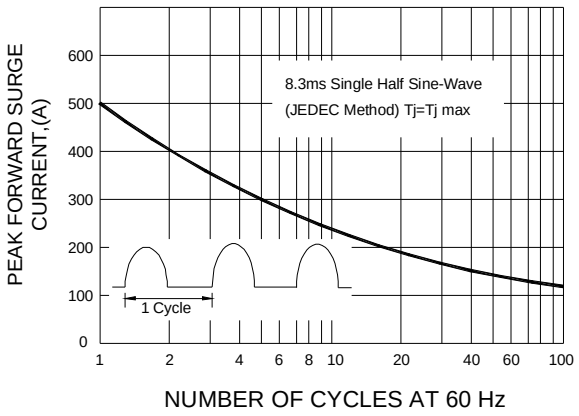
RATINGS AND CHARACTERISTIC CURVES AR3505 THRU AR358 ARS3505 THRU ARS358

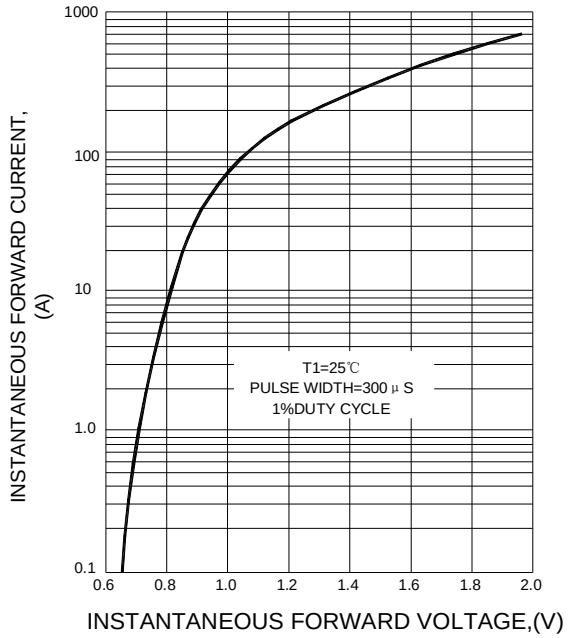
F1G.1 TYPICAL FORWARD CURRENT DERATING GURVE



F1G.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4 FORWARD ROWER DISSIPATION

