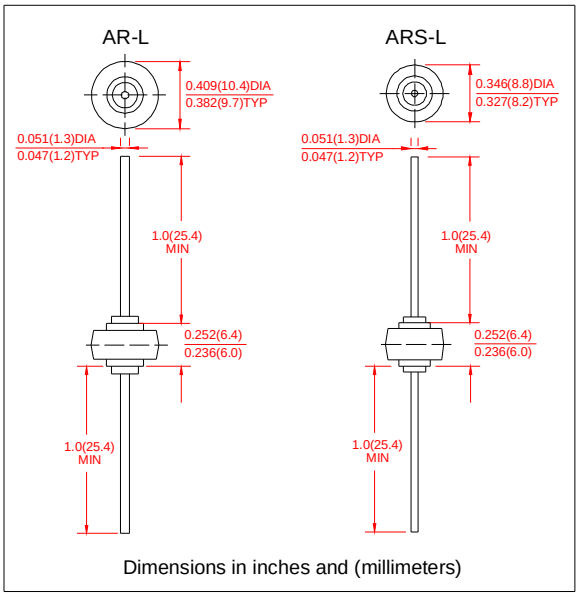
BUTTON AUTOMOTIVE RECTIFIER

ARL2505 THRU ARL256
ARSL2505 THRU ARSL256

VOLTAGE RANGE **50 to 600 Volts**
CURRENT **25.0 Amperes**

FEATURES

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



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Technology: Cell with vacuum soldered
- Case: transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Plated lead , solderable per MIL-STD-202E method 208C
- Polarity: Color ring denotes cathode end
- Mounting Position: any
- Weight: 0.083 ounces, 2.32 grams

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	ARL2505 ARSL2505	ARL251 ARSL251	ARL252 ARSL252	ARL254 ARSL254	ARL256 ARSL256	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current, At Tc=110℃	I_O	25.0					Amps
Peak Forward Surge Current 3.3mS single half sine wave superimposed on Rated load (JEDEC method)	I_{FSM}	400					Amps
Rating for fusing (t＜8.3ms)	I^2t	664					A^2S
Maximum instantaneous Forward Voltage at 80A	V_F	1.1					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	

Notes:

1. Enough heatsink must be considered in application.

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RATINGS AND CHARACTERISTIC CURVES

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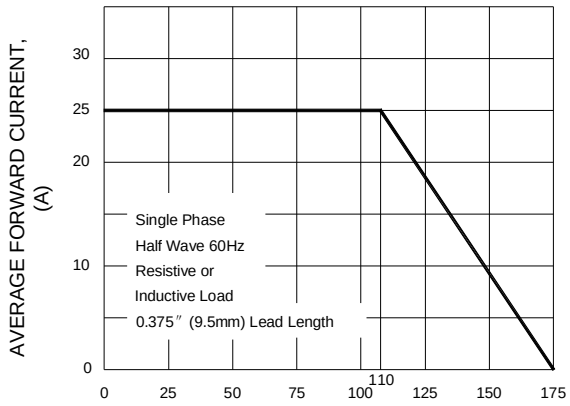
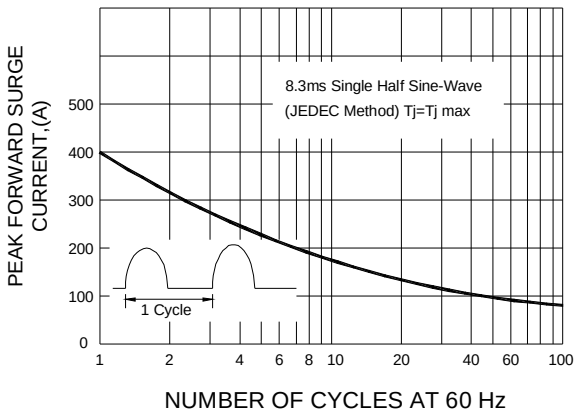
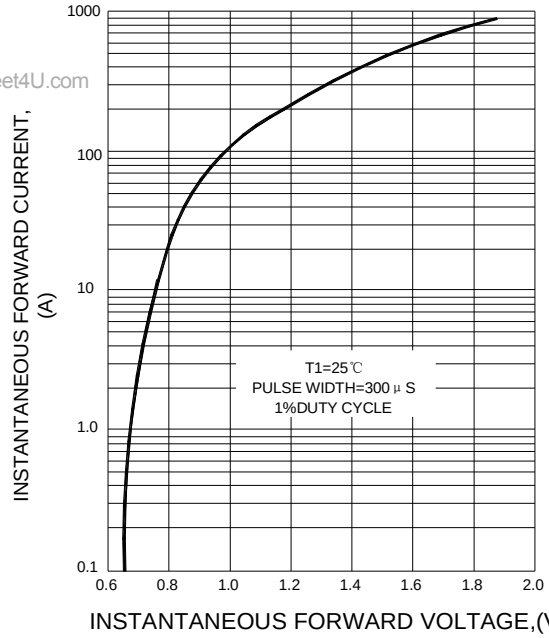
F1G.1 TYPICAL FORWARD CURRENT DERATING GURVE



F1G.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4 FORWARD ROWER DISSIPATION