



BUTTON AUTOMOTIVE RECTIFIER

FARL2505 THRU FARL256
FARSL2505 THRU FARSL256

VOLTAGE RANGE 50 to 600 Volts

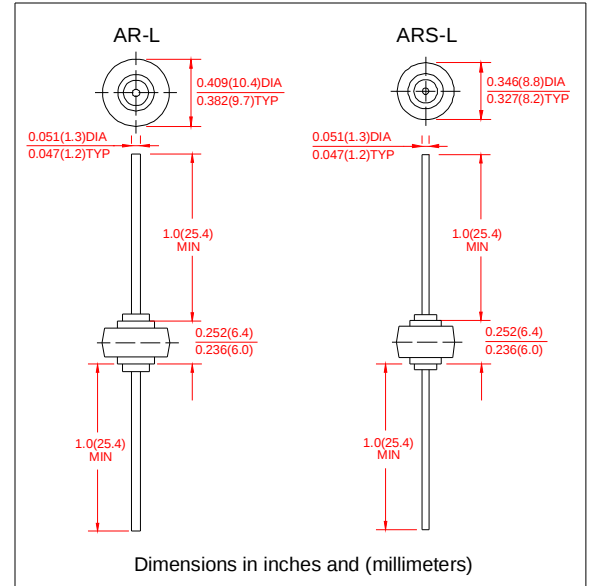
CURRENT 25.0 Amperes

FEATURES

- Low Leakage
- Low forward voltage drop
- High current capability
- High forward surge current capacity
- Fast switching for high efficiency

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	FARL2505 FARSL2505	FARL251 FARSL251	FARL252 FARSL252	FARL254 FARSL254	FARL256 FARSL256	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}	300					Amps
Rating for fusing (t<8.3ms)	I ² t	374					A ² S
Maximum instantaneous Forward Voltage at 80A	V _F	1.15				1.30	Volts
Maximum DC Reverse Current at Rated TA=25℃ DC Blocking Voltage per element TA=100℃	I _R	10					UA
		100					
Maximum Reverse Recovery Time Test conditions I _F =0.5A , I _R =1.0A , I _{RR} =0.25A	t _{rr}	150				200	nS
Typical Thermal Resistance	R _{θJC}	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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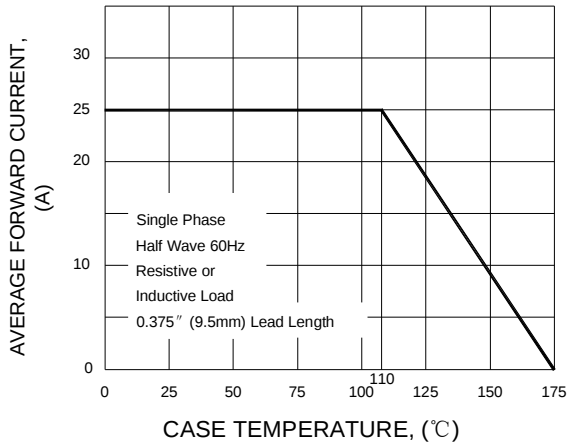
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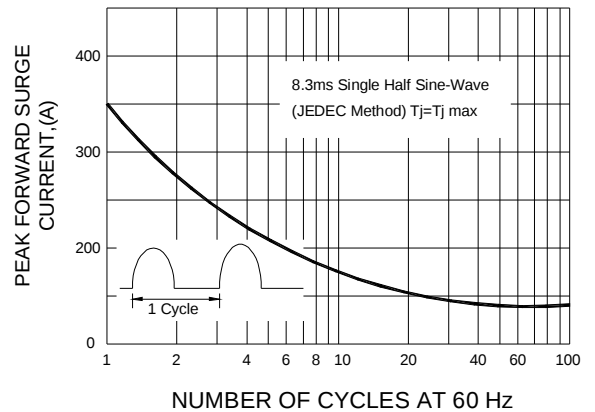
RATINGS AND CHARACTERISTIC CURVES

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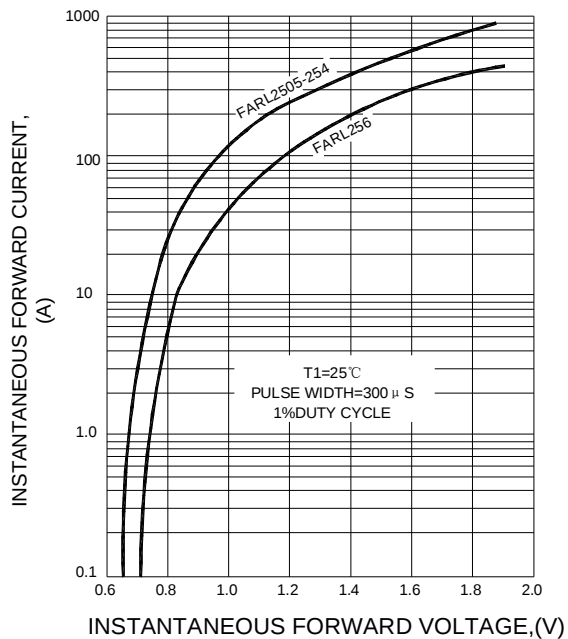
F1G.1 TYPICAL FORWARD CURRENT
DERATING CURVE



F1G.2 MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



F1G.3 TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS



F1G.4 FORWARD POWER DISSIPATION

