



JUMBO BUTTON AUTOMOTIVE RECTIFIER

JAR7005 THRU JAR706

VOLTAGE RANGE 50 to 600 Volts

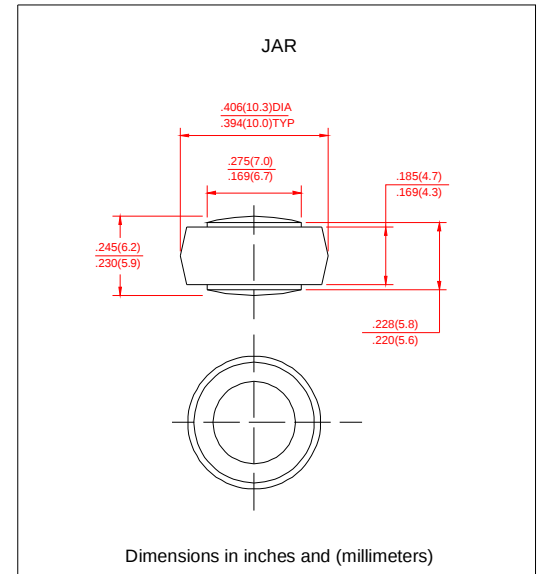
CURRENT 70.0 Amperes

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: 0.085 ounces, 2.40 grams



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	JAR7005	JAR701	JAR702	JAR704	JAR706	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	70.0					Amps
Peak Forward Surge Current 3.3mS single half sine wave superimposed on Rated load (JEDEC method)	I _{FSM}	700					Amps
Maximum instantaneous Forward Voltage at 100A	V _F	1.05					Volts
Maximum DC Reverse Current at Rated TA=25℃ DC Blocking Voltage per element TA=100℃	I _R	5.0					UA
		400					
Typical Thermal Resistance	R _{θJC}	0.8					℃/W
Operating and Storage Temperature Range	T _J ,T _{STG}	(-65 to +175)					℃
Polarity and voltage demotion color band		Red	Yellow	Silver	Orange	Green	

Notes:

1. Enough heatsink must be considered in application.



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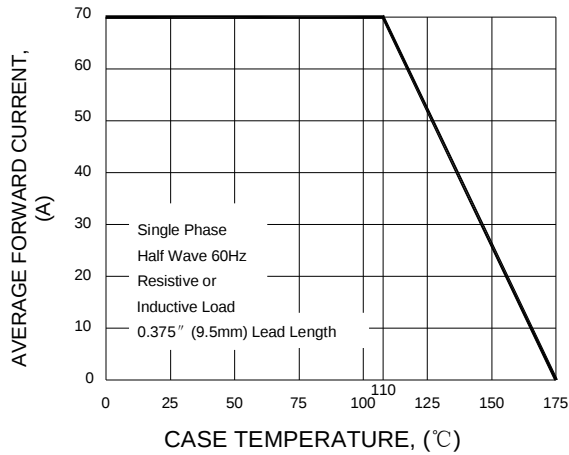
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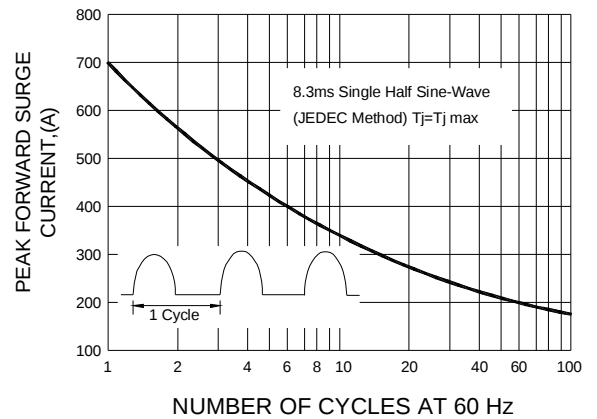
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RATINGS AND CHARACTERISTIC CURVES JAR7005 THRU JAR706

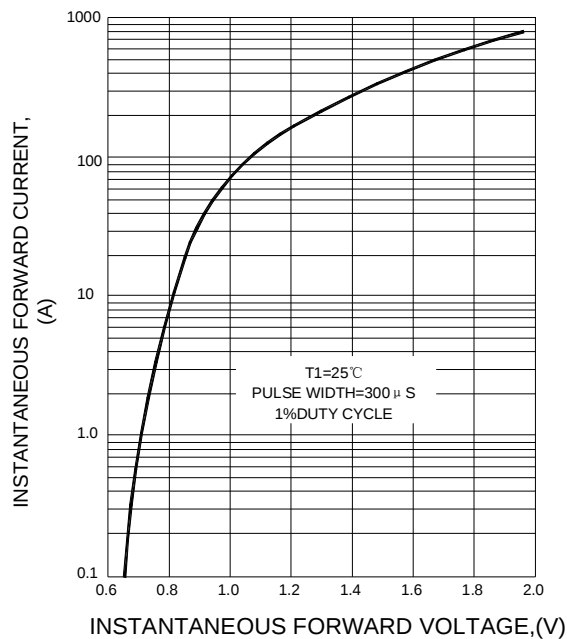
**F1G.1 TYPICAL FORWARD CURRENT
DERATING CURVE**



**F1G.2 MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT**



**F1G.3 TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS**



F1G.4 FORWARD POWER DISSIPATION

