

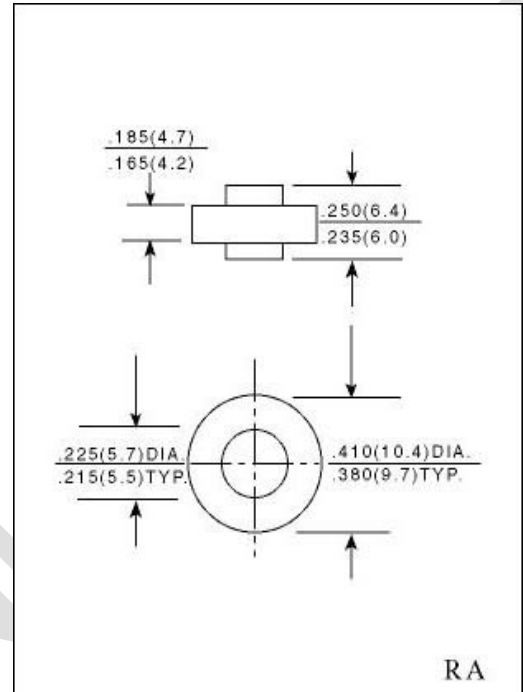
AUTOMOTIVE RECTIFIER

FEATURES

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

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V - 0 rate flame retardant.
- Polarity: Color ring denotes cathode end.
- Lead: Plated slug, solderable per MIL - STD - 202E method 208C
- Mounting position: Any
- Weight: 0.064 ounce, 1.82gram



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	RA 5001	RA 5002	RA 5003	RA 5004	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	200	300	400	Volts
Maximum RMS Voltage		V _{RMS}	70	140	210	280	Volts
Maximum DC Blocking Voltage		V _{DC}	100	200	300	400	Volts
Maximum Average Forward Rectified Current, at T _C = 105°C		I _(AV)	50				Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)		I _{FSM}	600				Amps
Maximum Instantaneous Forward Voltage at 80 A		V _F	1.08				Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A = 25°C	I _R	5.0				μ A
	T _C = 100°C		400				
Typical Thermal Resistance		R _{θJC}	0.8				°C/W
Operating and Storage Temperature Range		T _J , T _{STG}	(-65 to +175)				°C
Polarity and voltage denotion color band			Yellow	Silver	Orange	Green	

NOTES:

1. Enough heatsink must be considered in application.