

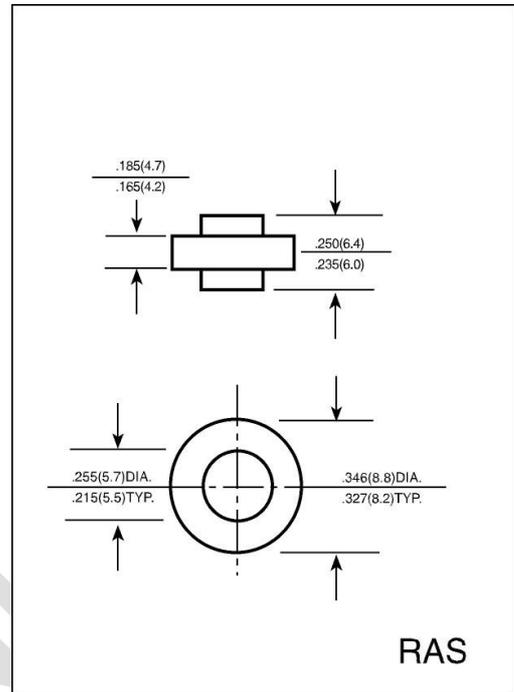
AUTOMOTIVE RECTIFIER

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 | RAS 1505 | RAS 151 | RAS 152 | RAS 154 | RAS 156 | RAS 158 | RAS 1510 | UNIT |
|--|---------------------|---------------|---------|---------|---------|---------|---------|----------|--------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current, at $T_C = 125^\circ C$ | $I_{(AV)}$ | 15.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method) | I_{FSM} | 400 | | | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 15 A | V_F | 1.0 | | | | | | | Volts |
| Maximum DC Reverse Current at rated DC blocking voltage | $T_A = 25^\circ C$ | 5.0 | | | | | | | μA |
| | $T_C = 100^\circ C$ | 250 | | | | | | | |
| Typical Thermal Resistance | $R_{\theta JC}$ | 1.0 | | | | | | | $^\circ C/W$ |
| Operating and Storage Temperature Range | T_J, T_{STG} | (-65 to +175) | | | | | | | $^\circ C$ |
| Polarity and voltage denotion color band | | Red | Yellow | Sliver | Orange | Green | Blue | Violet | |

NOTES:

1. Enough heatsink must be considered in application.