

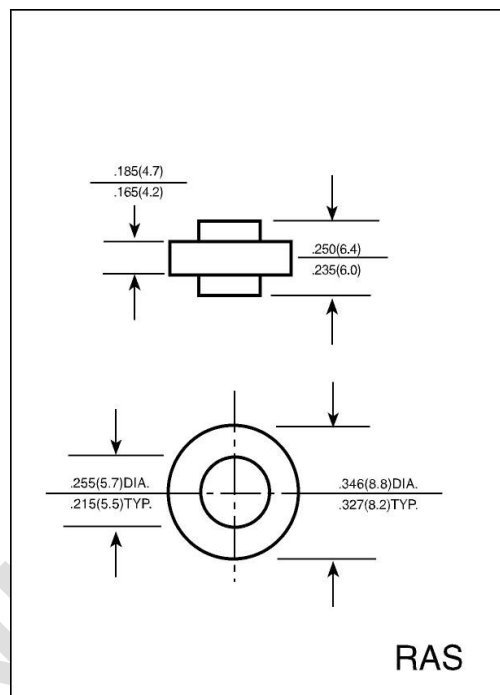
AUTOMOTIVE RECTIFIER

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 2505	RAS 251	RAS 252	RAS 254	RAS 256	RAS 258	RAS 2510	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°C	I _(AV)	25.0							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	I _{FSM}	500							Amps
Maximum Instantaneous Forward Voltage at 25 A	V _F	1.0							Volts
Maximum DC Reverse Current at rated	T _A = 25°C	5.0							μ A
DC blocking voltage	T _C = 100°C								
Typical Thermal Resistance	R _{θJC}	1.0							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	(-65 to +175)							°C
Polarity and voltage denotion color band		Red	Yellow	Silver	Orange	Grenn	Blue	Violet	

NOTES:

1. Enough heatsink must be considered in application.

FIG.1-TYPICAL FORWARD CURRENT

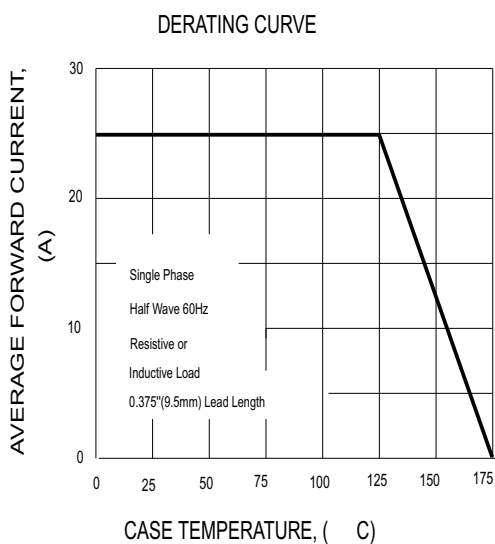


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

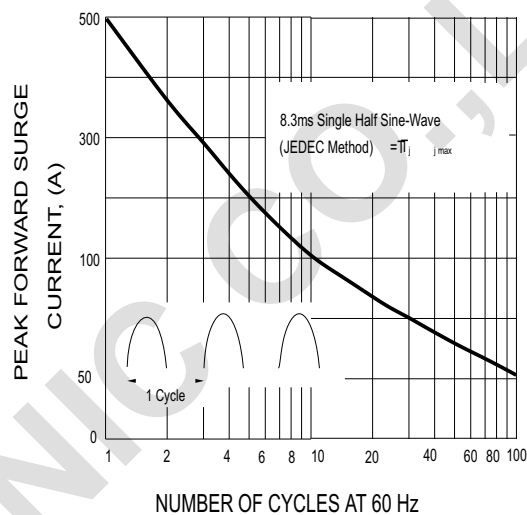


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

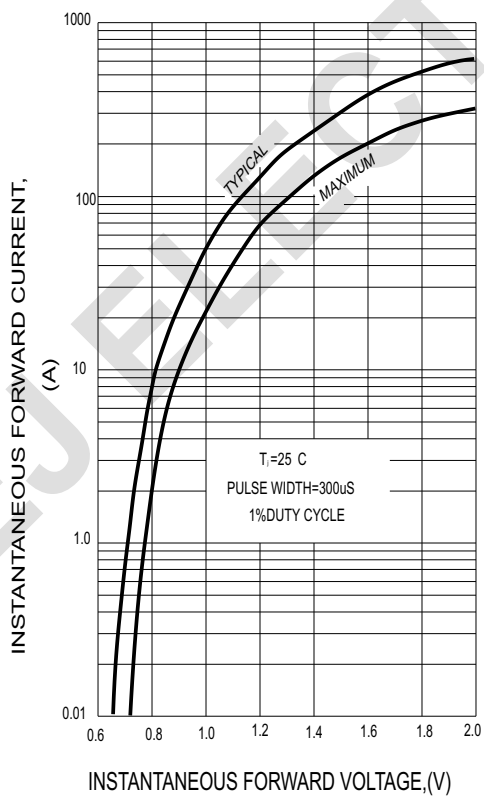


FIG.4. FORWARD POWER DISSIPATION

