BL GALAXY ELECTRICAL

AR(S)2505---AR(S)2510

AUTOMOTIVE RECTIFIER

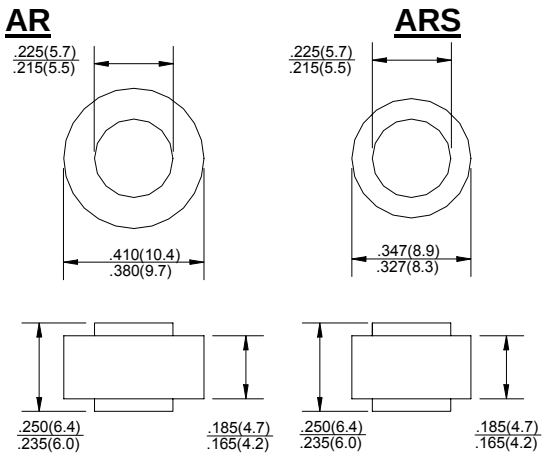
VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 25 A

FEATURES

- ◇ Utilizing void-free molded plastic technique
- ◇ Low power loss
- ◇ High surge capability
- ◇ High temperature soldering guaranteed: 265℃/10s

MECHANICAL DATA

- ◇ Case: Molded with UL-94 class V-O recognized flame retardant epoxy
- ◇ Terminals: Plated axal terminals solderable per MIL- STD-202E, method 208
- ◇ Polarity: Color ring denotes cathode



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		AR 2505 / ARS 2505	AR 251 / ARS 251	AR 252 / ARS 252	AR 254 / ARS 254	AR 256 / ARS 256	AR 258 / ARS 258	AR 2510 / ARS 2510	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @T_A=55℃	$I_{(AV)}$	25.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	400							A
Maximum instantaneous forward voltage at 25 A	V_F	1.0							V
Maximum reverse current @T_A=25℃ / at rated DC blocking voltage @T_A=150℃	I_R	10.0 / 1000							μ A
Typical junction capacitance (Note1)	C_J	300							pF
Typical thermal resistance (Note2)	$R_{\theta JC}$	1							℃/W
Operating junction temperature range	T_j	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to case.

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FIG.1 – FORWARD CURRENT DERATING CURVE

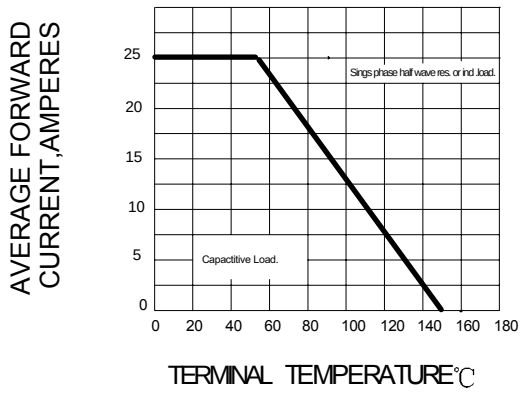


FIG.2 -- PEAK FORWARD SURGE CURRENT

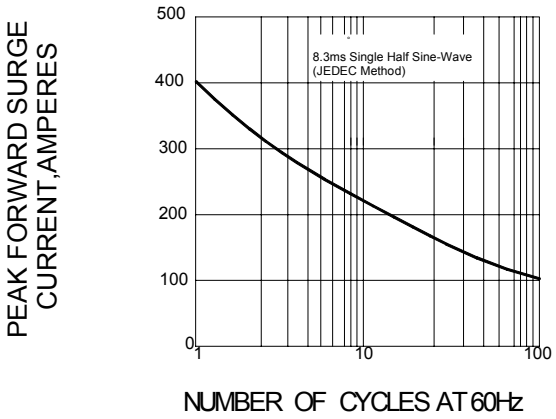


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

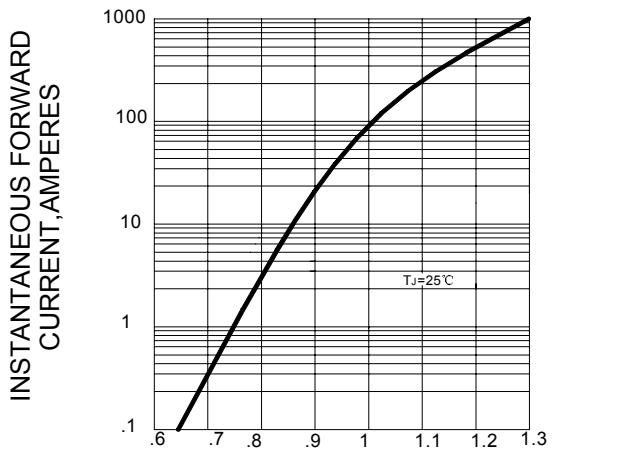


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

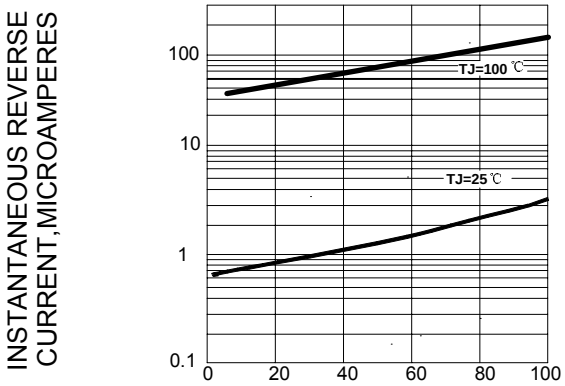


FIG.5 -- TYPICAL JUNCTION CAPACITANCE

