



AUTOMOBILE RECTIFIERS

RA3505PT THRU RA3510PT

VOLTAGE RANGE
CURRENT

50 to 1000 Volts
35 Ampere

FEATURES

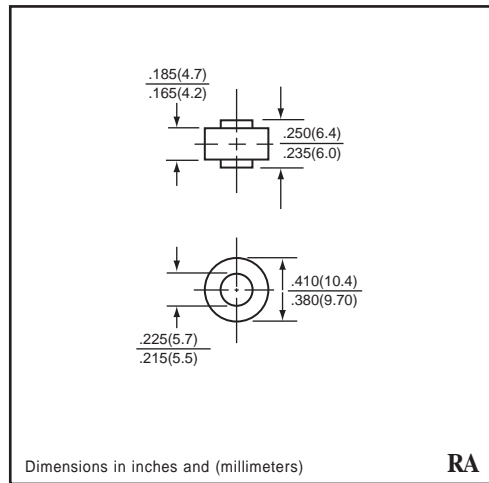
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

Case: JEDEC RA molded plastic
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any



RA



RA

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RA3505PT	RA351PT	RA352PT	RA354PT	RA356PT	RA358PT	RA3510PT	UNITS	
Marking Color		Violet	Brown	Red	Yellow	Blue	Silver	Gold		
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Current at TC = 105°C	Io	35.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	400								Amps
Typical Thermal Resistance	R θ JL	1.0								°C / W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +175								°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RA3505PT	RA351PT	RA352PT	RA354PT	RA356PT	RA358PT	RA3510PT	UNITS	
Maximum Instantaneous Forward Voltage at 35.0 A DC	Vf	1.2								Volts
Maximum Reverse Current at rated DC blocking Voltage per leg	@ TA = 25°C	25								uAmps
	@ TC = 100°C	500								

NOTES : Enough heat sink must be considered in application.

2001-6



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VOLTAGE RANGE 50 to 1000 Volts
CURRENT 35 Ampere

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

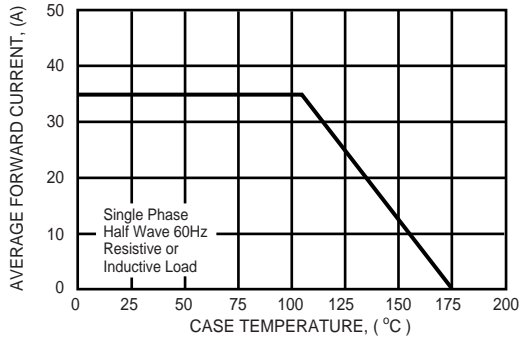


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

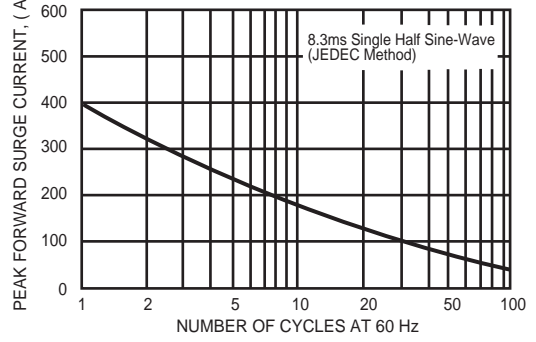


FIG. 3 - FORWARD POWER DISSIPATION

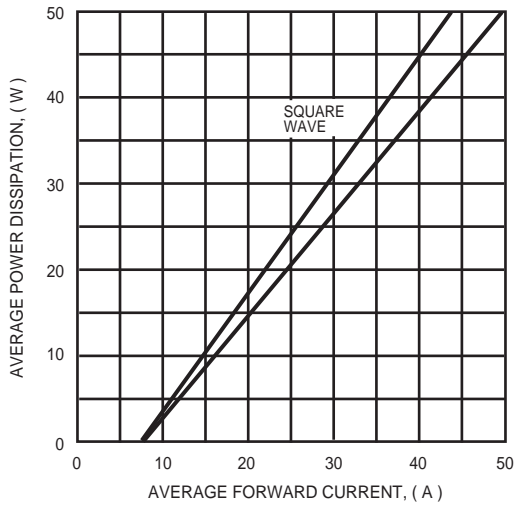


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

