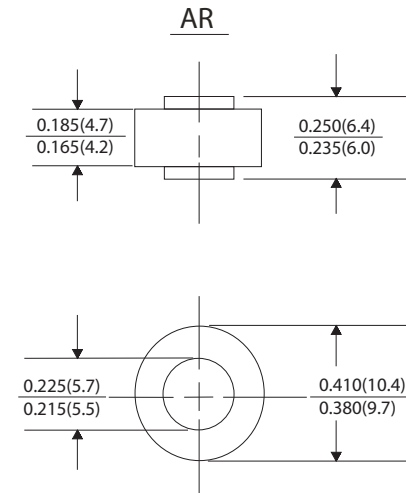


Features

- Plastic material used carries Underwriters Laboratory Classification 94V-0
- Low cost construction utilizing void-free molded plastic technique
- Low cost
- Diffused junctions
- Low leakage
- High surge capability
- High temperature soldering guaranteed : 250°C for 10 seconds

Mechanical Data

- Case : AR molded plastic
- Terminals : Plated terminals, solderable per MIL-STD-750, method 208
- Polarity : Color ring denotes cathode end
- Mounting Position : Any
- Weight : 0.07 ounce, 1.8 gram



Dimensions in inches and (millimeters)

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 by 20%)

	Symbols	AR 3505	AR 351	AR 352	AR 354	AR 356	AR 358	AR 3510	Units
Maximum recurrent 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 =150°C	I _(AV)	35.0							Amps
Peak forward surge current 8.3ms half sine wave superimposed on rated load (JEDEC method) T _J =150°C	I _{FSM}	500							Amps
Maximum instantaneous forward voltage at 35.0A	V _F	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	T _C =25°C	5.0							µA
	T _C =100°C	250							
Typical reverse recovery time (Note 2)	t _{rr}	3.0							µS
Typical junction capacitance (Note 1) T _J =25°C	C _J	300							pF
Typical thermal resistance (Note 3)	R _{θJC}	1.0							°C/W
Operating and storage temperature range	T _J T _{STG}	-50 to +175							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V dc.
- (2) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
- (3) Thermal resistance from junction to case, single side cooled.

RATINGS AND CHARACTERISTIC CURVES AR3505 THRU AR3510

