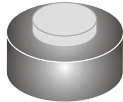


# AR3505 THRU AR3510



35.0 AMP SILICON RECTIFIERS



## FEATURES

- \* Low forward voltage drop
- \* Low leakage current
- \* High reliability
- \* High current capability

## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Slugs: Plated slugs, solderable per MIL-STD-202 method 208 guranteed
- \* Polarity: Color ring denotes cathode end
- \* Mounting position: Any
- \* Weight: 1.80 grams

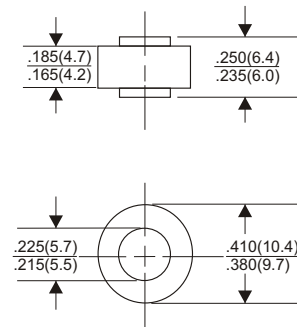
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

35.0 Ampere

AR



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unieess otherwies specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

TYPE NUMBER	AR3505	AR351	AR352	AR354	AR356	AR358	AR3510	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Tc=150°C	35.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	400							A
Maximum Instantaneous Forward Voltage at 35.0A	1.0							V
Maximum DC Reverse Current Tc=25°C	25							A
at Rated DC Blocking Voltage Tc=100°C	500							A
Typical Junction Capacitance (Note 1)	350							pF
Typical Thermal Resistance R JA (Note 2)	1.0							°C/W
Operating and Storage Temperature Range Tj, Tstg	-65 — +175							°C
Cathode Band Color	Red	Yellow	Silver	Orange	Green	Blue	Violet	

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

## RATING AND CHARACTERISTIC CURVES (AR3505 THRU AR3510)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

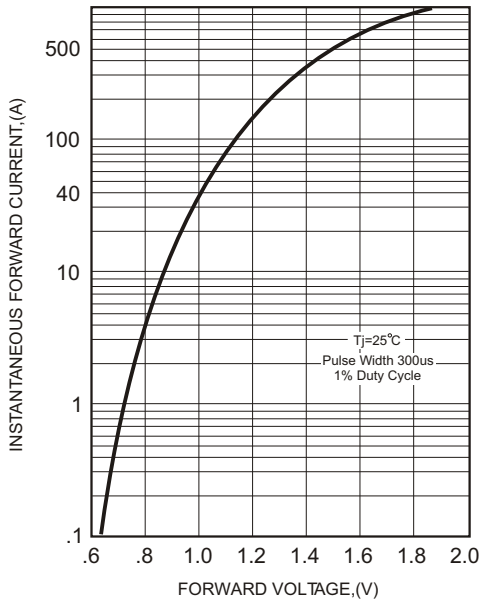


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

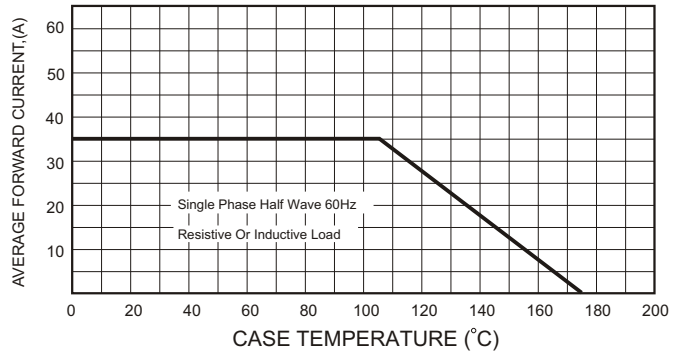


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

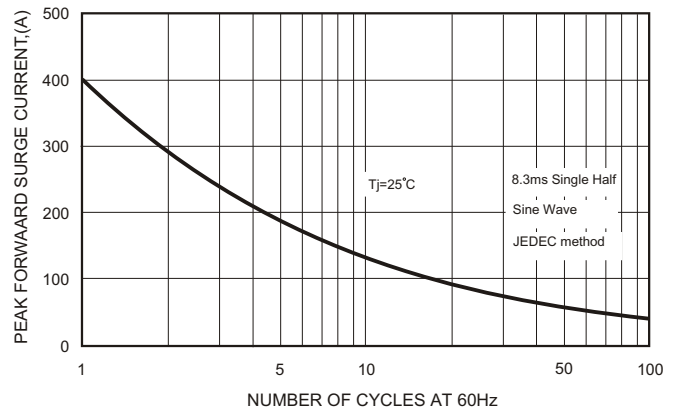


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

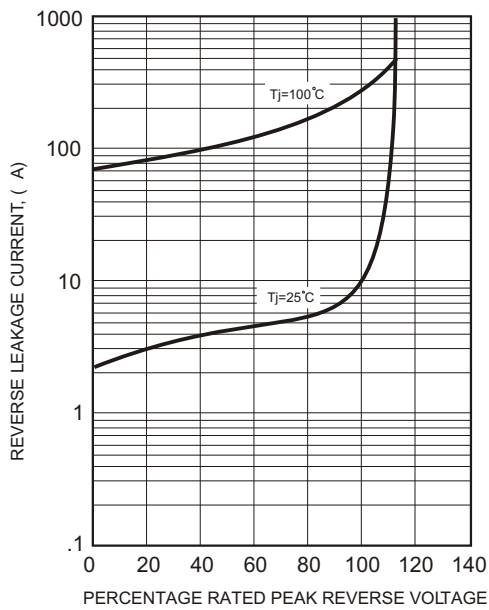


FIG.5-TYPICAL JUNCTION CAPACITANCE

