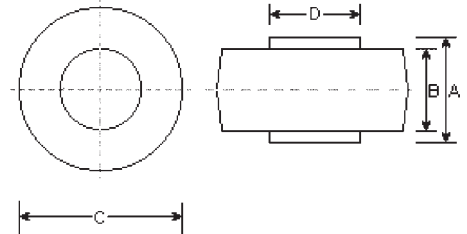


Features

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability

RA



Mechanical Data

- Copper heat sink
- Tin-plated slug easy for soldering
- Encapsulated by UL94V-0 rate (flame retardant) plastic

DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.235	0.250	6.0	6.4	
B	0.165	0.185	4.2	4.7	
C	0.380	0.410	9.7	10.4	ϕ
D	0.215	0.225	5.5	5.7	ϕ

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	RA351	RA352	RA353	RA354	RA355	RA356	RA357	Units
Marking color		Violet	Brown	Red	Yellow	Blue	Silver	Gold	
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 $T_c=105^\circ\text{C}$	I_O	35.0							Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I_{FSM}	400.0							Amps
Maximum instantaneous forward voltage at 35.0A DC	V_F	1.2							Volts
Maximum DC reverse current at rated DC blocking voltage $T=25^\circ\text{C}$ $@T_c=100^\circ\text{C}$	I_R	25.0 500.0							μA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	1.0							$^\circ\text{C/W}$
Operating and storage temperature range	T_J, T_{STG}	-65 to +175							$^\circ\text{C}$

Note:

- (1) Enough heat sink must be considered in application

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

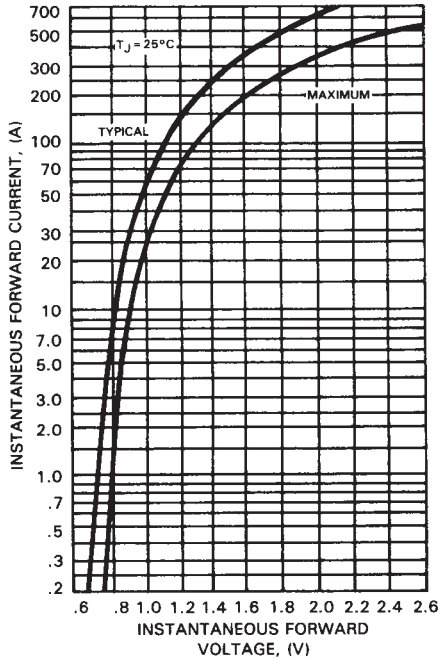


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

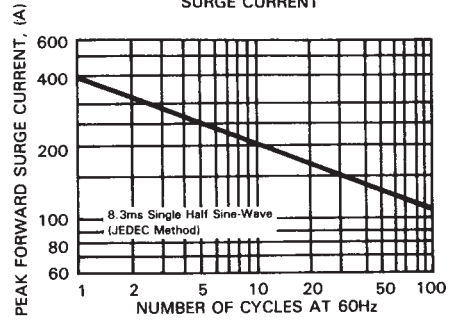


FIG. 3 - TYPICAL FORWARD CURRENT DERATING CURVE

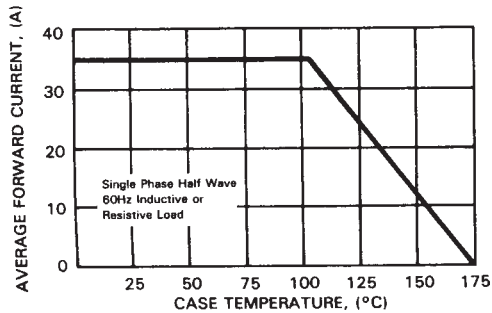


FIG. 4 - FORWARD POWER DISSIPATION

