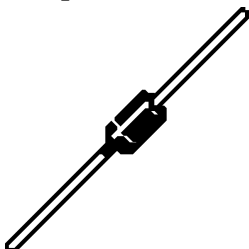
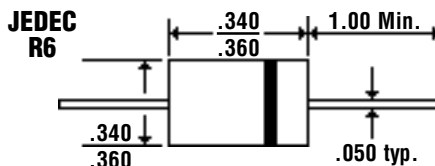


Description



Mechanical Dimensions

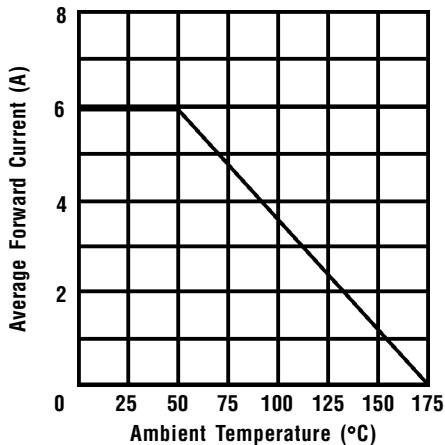


Features

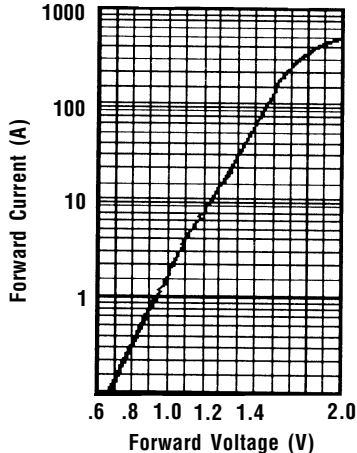
- FAST SWITCHING FOR HIGH EFFICIENCY
- HIGH SURGE CAPABILITY
- 6.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- MEETS UL SPECIFICATION 94V-0

| FR60 . . . 610 Series | | | | | | | | Units |
|--|------------|------|------|------|------|------|-------|----------------|
| Maximum Ratings | FR60 | FR61 | FR62 | FR64 | FR66 | FR68 | FR610 | |
| Peak Repetitive Reverse Voltage...V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| RMS Reverse Voltage...V _{R(rms)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| DC Blocking Voltage...V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Average Forward Rectified Current...I _{F(av)} T _A = 55°C | 6.0 | | | | | | | Amps |
| Non-Repetitive Peak Forward Surge Current...I _{FSM} @ Rated Current & Temp | 300 | | | | | | | Amps |
| Operating & Storage Temperature Range...T _J , T _{STRG} | -65 to 175 | | | | | | | °C |
| Electrical Characteristics | | | | | | | | |
| Maximum Forward Voltage @ 6.0A...V _F | 1.3 | | | | | | | Volts |
| Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage | 10 150 | | | | | | | μAmps μAmps |
| Typical Junction Capacitance...C _j (Note 1) | 100 | | | | | | | pF |
| Maximum Reverse Recovery Time...t _{RR} | 150 | 150 | 150 | 150 | 250 | 500 | 500 | ns |

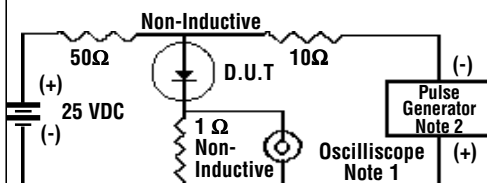
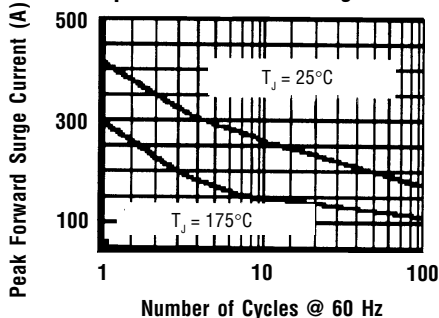
Forward Current Derating Curve



Typical Instantaneous Forward Characteristics

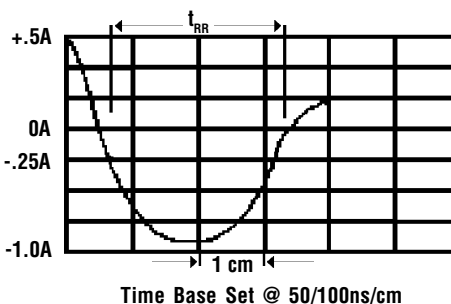


Non-Repetitive Peak Forward Surge Current



- Notes: 1. Rise Time = 7 ns Max.
Impedance = 1 megohm, 22 pF
2. Rise Time = 10 ns Max.
Source Impedance = 50 Ohms

Reverse Recovery Characteristics



Ratings at
25 Deg. C ambient
temperature
unless otherwise
specified.

Single Phase Half
Wave, 60 Hz
Resistive or
Inductive Load.

For Capacitive
Load, Derate
Current by 20%.

- NOTES:** 1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
2. Thermal Resistance Junction to Ambient, Jedec Method.