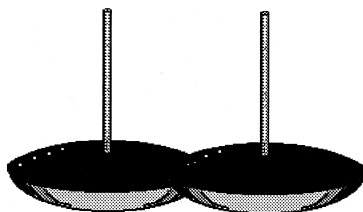
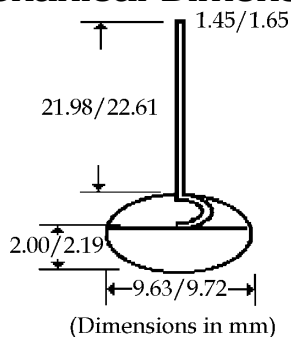


Description



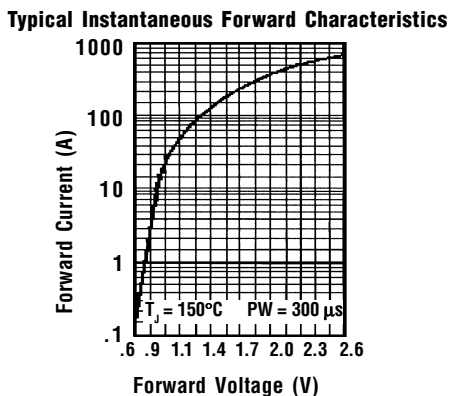
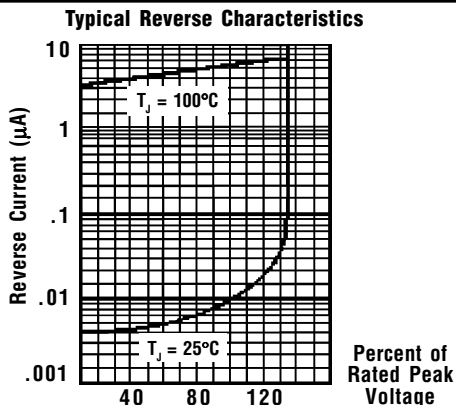
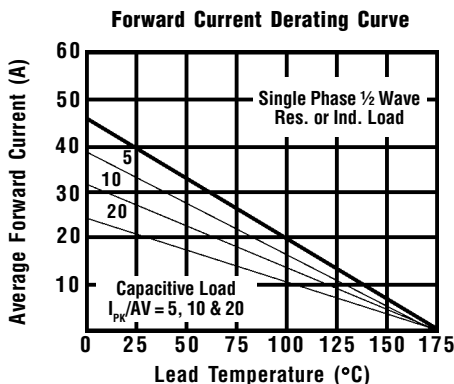
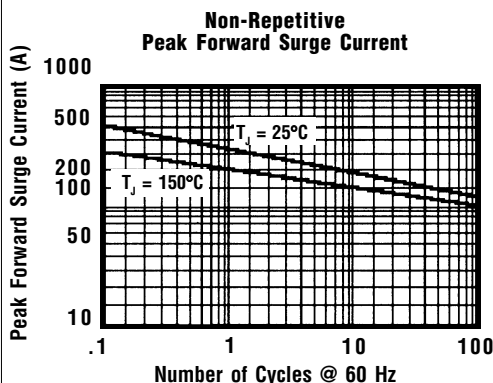
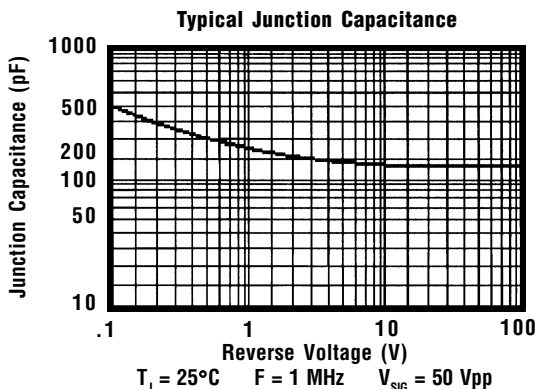
Mechanical Dimensions



Features

- **LOW COST**
- **HIGH SURGE CAPABILITY**
- **DIFFUSED JUNCTION**
- **LOW LEAKAGE CURRENT**
- **HIGH TEMPERATURE CAPABILITY**
- **MEETS UL SPECIFICATION 94V-0**

FDR20/3001 . . . 20/3004 Series					Units
Maximum Ratings	FDR20/3001	FDR20/3002	FDR20/3003	FDR20/3004	
Peak Repetitive Reverse Voltage...V _{RRM}	100	200	300	400	Volts
RMS Reverse Voltage...V _{R(rms)}	70	140	210	280	Volts
DC Blocking Voltage...V _{DC}	100	200	300	400	Volts
Average Forward Rectified Current...I _{F(av)} 25/35 T _A = 55°C (Note 3)					Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 400/500 @ Rated Current & Temp					Amps
Operating & Storage Temperature Range...T _J , T _{STRG} -65 to 175					°C
Electrical Characteristics					
Maximum Forward Voltage @ 80A...V _F 1.15					Volts
Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage	25°C	2.0			μAmps
	150°C	250			μAmps
Typical Junction Capacitance...C _J (Note 1) < 200 > < 300 >					pF
Typical Thermal Resistance...R _{θJA} (Note 2) 0.8					°C/W
Typical Reverse Recovery Time...t _{RR} 3.0					μs



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.
 3. When Mounted to heat sink, from body.