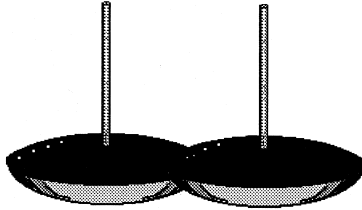
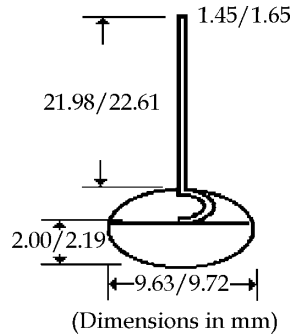


Description



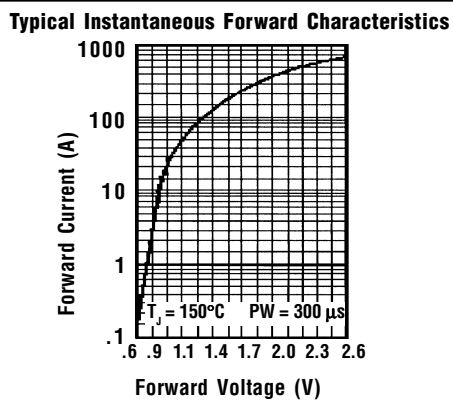
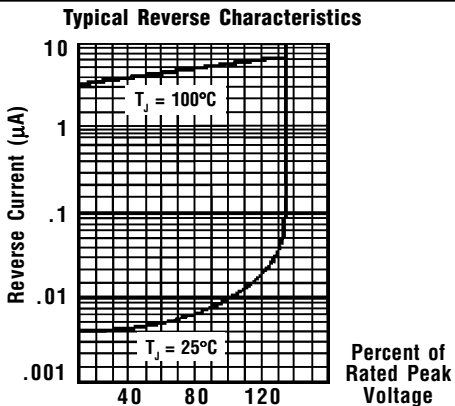
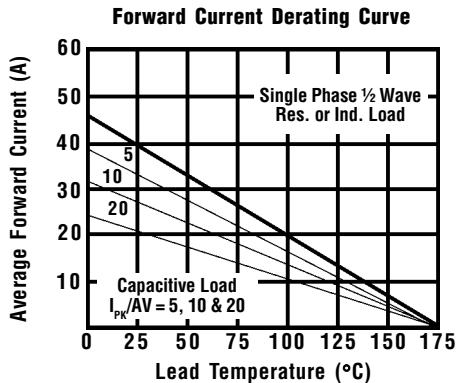
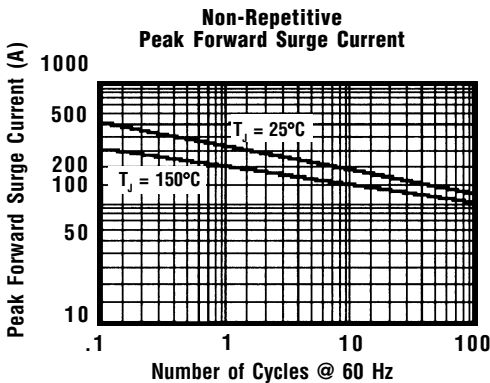
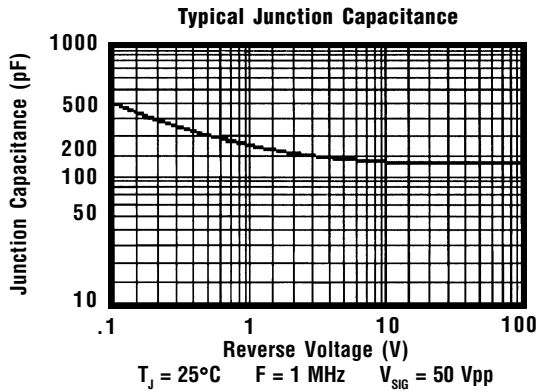
Mechanical Dimensions



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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (Note 3)	25/35				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	400/500				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... $R_{\theta JA}$ (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.