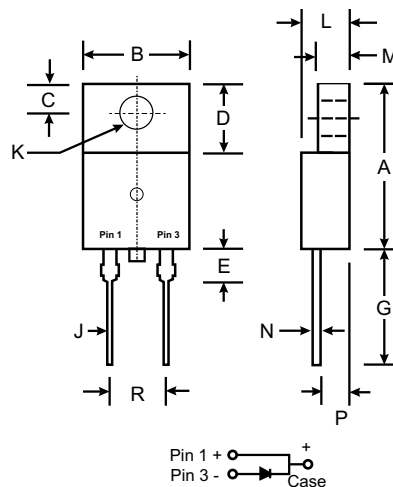


Features

- Glass Passivated Die Construction
- Diffused Junction
- Super-Fast Recovery Times for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 50A Peak
- Low Reverse Leakage Current
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 3.0 grams (approx.)



ITO-220AC		
Dim	Min	Max
A	14.8	15.4
B	9.6	10.3
C	2.55	2.85
D	6.3	6.9
E	—	4.1
G	13.0	13.8
J	.5	.9
K	3.0	3.4
L	3.5	4.8
M	2.3	3.1
N	.4	.8
P	2.5	2.9
R	4.83	5.33
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	DIDR10150	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	1500	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	1060	V
Average Rectified Output Current	I _O	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50	A
Forward Voltage @ I _F = 10A	V _{FM}	2.8	V
Peak Reverse Current @ T _C = 25°C at Rated DC Blocking Voltage @ T _J = 90°C	I _{RM}	50 500	μA
Maximum Recovery Time (Note 1) (Note 2)	t _{rr}	200 500	ns
Typical Junction Capacitance (Note 3)	C _j	50	pF
Typical Thermal Resistance Junction to Lead 1/8" From Body	R _{θJC}	25	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +125	°C

- Notes:
1. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A.
 2. Measured with I_F = 0.5A, I_R = 0.5A 90% Recovery Point
 3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

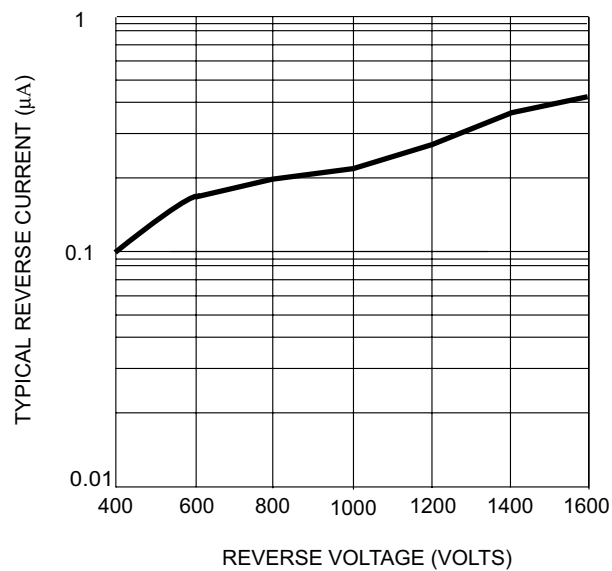


Fig. 1, Typical Reverse Current vs Reverse Voltage

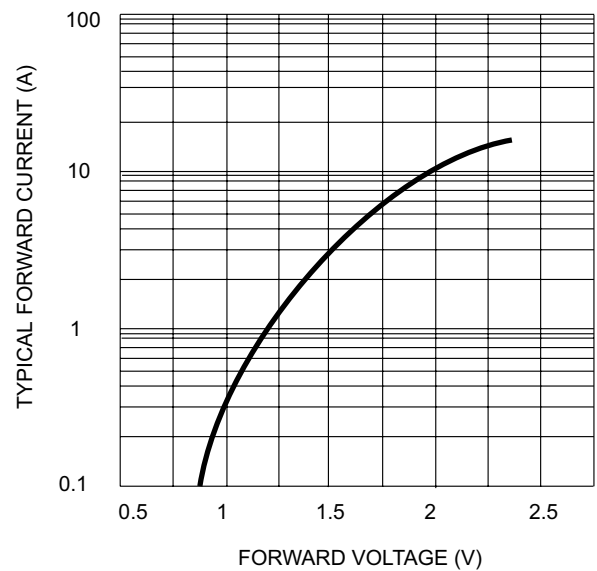


Fig. 2 Typical Forward Characteristics

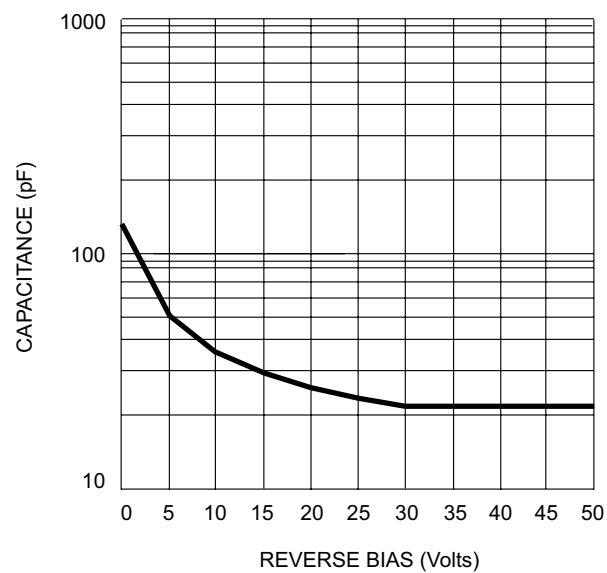


Fig. 3, Capacitance vs Reverse Bias