

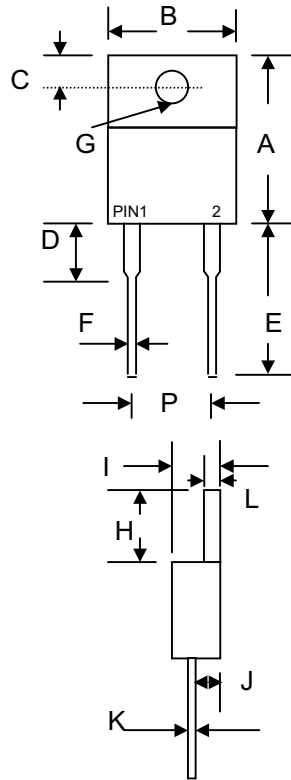
Data Sheet 2611 Rev.—

Features

- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

- Case: ITO-220A Full Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



ITO-220A		
Dim	Min	Max
A	0.587(14.9)	0.595(15.10)
B	—	0.413(10.50)
C	0.103(2.62)	0.113(2.87)
D	0.140(3.56)	0.160(4.06)
E	0.530(13.46)	0.560(14.22)
F	0.027(0.68)	0.037(0.94)
G	0.147(3.74)Ø	0.154(3.91)Ø
H	0.230(5.84)	0.270(6.86)
I	0.175(4.44)	0.185(4.70)
J	0.100(2.54)	0.110(2.79)
K	0.014(0.35)	0.025(0.64)
L	0.045(1.14)	0.055(1.40)
P	0.195(4.95)	0.205(5.20)
All Dimensions in inch(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	ER 1000F	ER 1001F	ER 1001AF	ER 1002F	ER 1003F	ER 1004F	ER 1006F	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	210	280	420	V
Average Rectified Output Current @T _C = 105°C	I _o	10							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							A
Forward Voltage @I _F = 10A	V _{FM}	0.95			1.3		1.7		V
Peak Reverse Current @T _A = 25°C	I _{RM}	10							µA
At Rated DC Blocking Voltage @T _A = 100°C		500							
Reverse Recovery Time (Note 1)	t _{rr}	35			50				nS
Typical Junction Capacitance (Note 2)	C _j	70			50				pF
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150							°C

Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

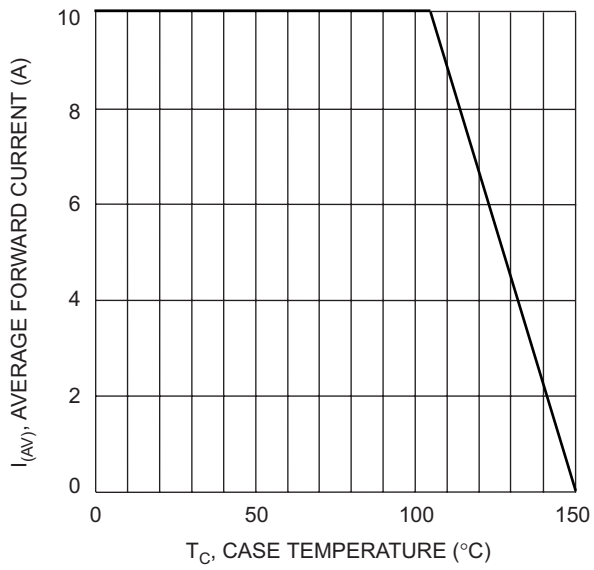


Fig. 1 Forward Current Derating Curve

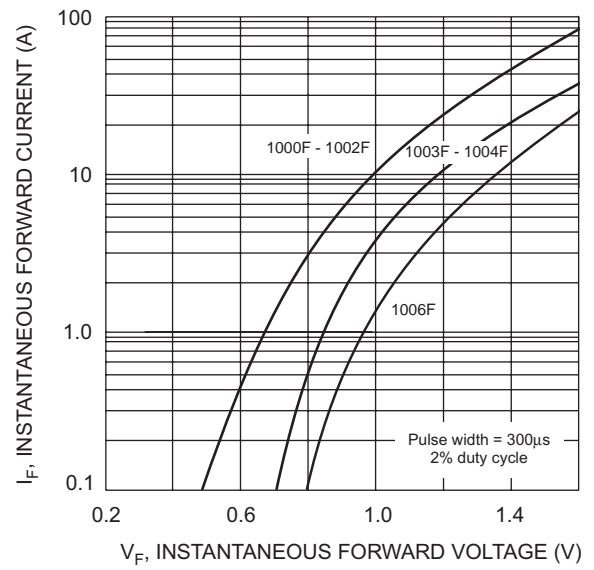


Fig. 2 Typical Forward Characteristics

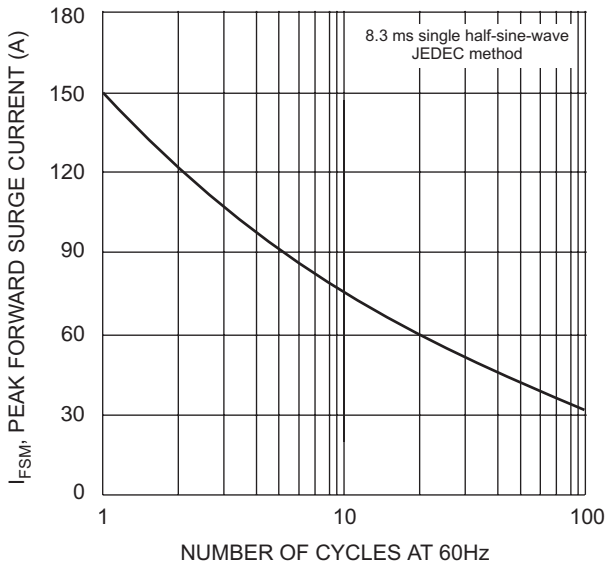


Fig. 3 Max Non-Repetitive Surge Current

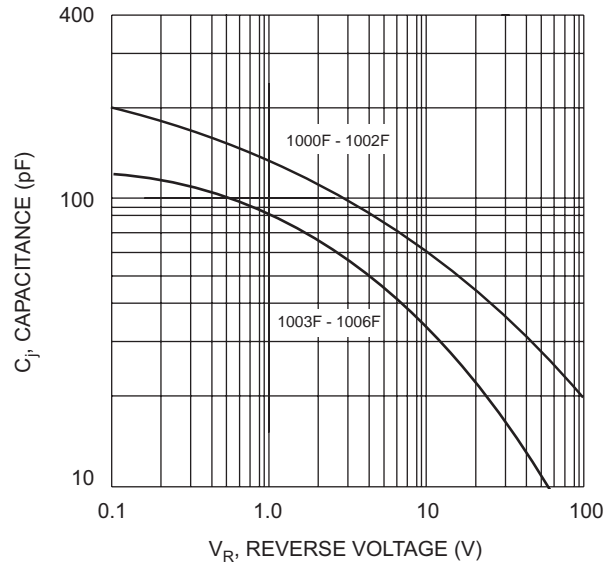


Fig. 4 Typical Junction Capacitance

TECHNICAL DATA

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