

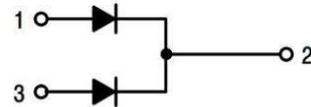


Features

- Low power loss,high efficiency.
- High surge capacity
- For use in low voltage,high frequency inverters, free wheeling,and polarity protection applications.
- Metal silicon junction,majority carrier conduction.
- High current Capability,low forward voltage drop.
- Guard ring for over voltage protection.



**TO-220F
(ITO-220AB-3)
PIN CONNECTIONS**



Absolute Maximum Ratings (T_c=25°C)

Parameter	Symbol	Limit	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS Voltage	V _{RMS}	31.5	V
Maximum DC Blocking Voltage	V _{R(DC)}	45	V
Maximum Average Forward Current	I _{F(AV)}	30	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200	A
Maximum Forward Voltage at 15A per leg	V _F	0.65	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _j =25°C	0.1	mA
	T _j =125°C	20	mA
Maximum Operating Junction Temperature	T _j	175	°C
Storage Temperature	T _{stg}	-65~+175	°C
Typical Thermal Resistance	R _{θJC}	1.4	°C/W



Typical Characteristics

FIG. 1 – FORWARD CURRENT DERATING CURVE

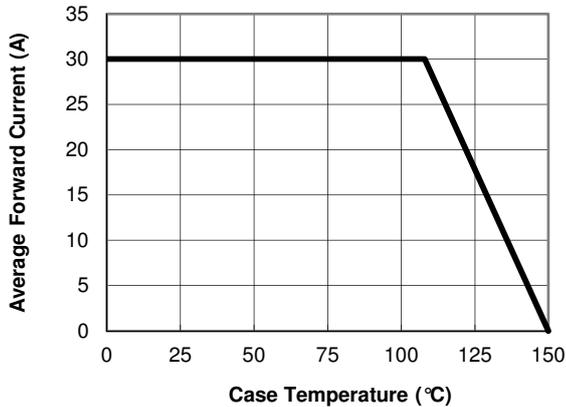


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

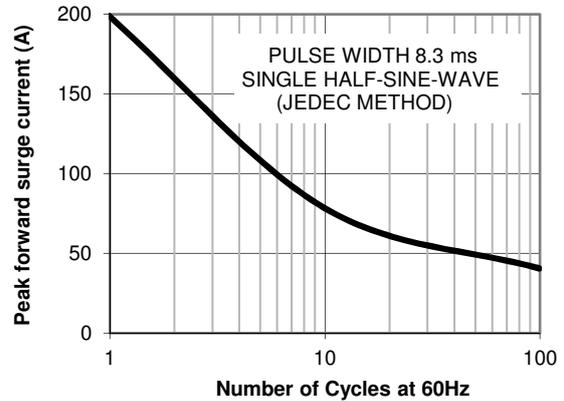


FIG.3-TYPICAL REVERSE CHARACTERISTICS

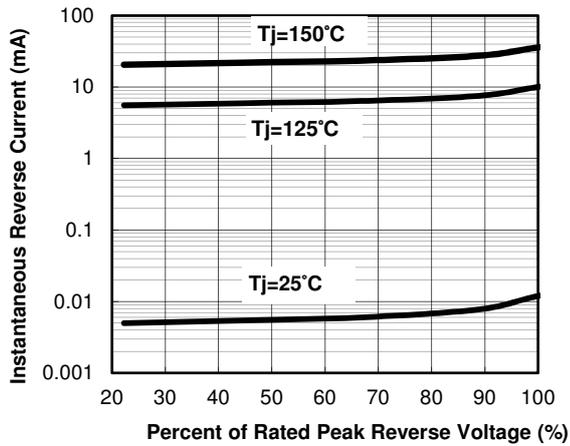
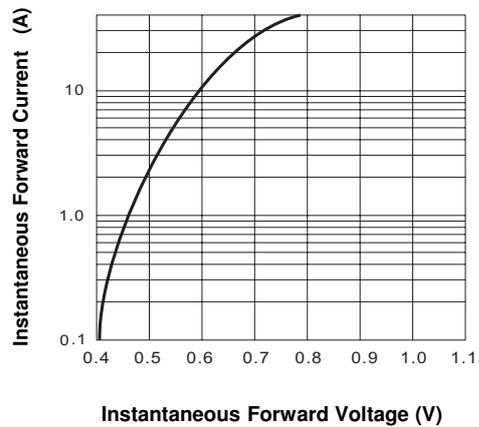
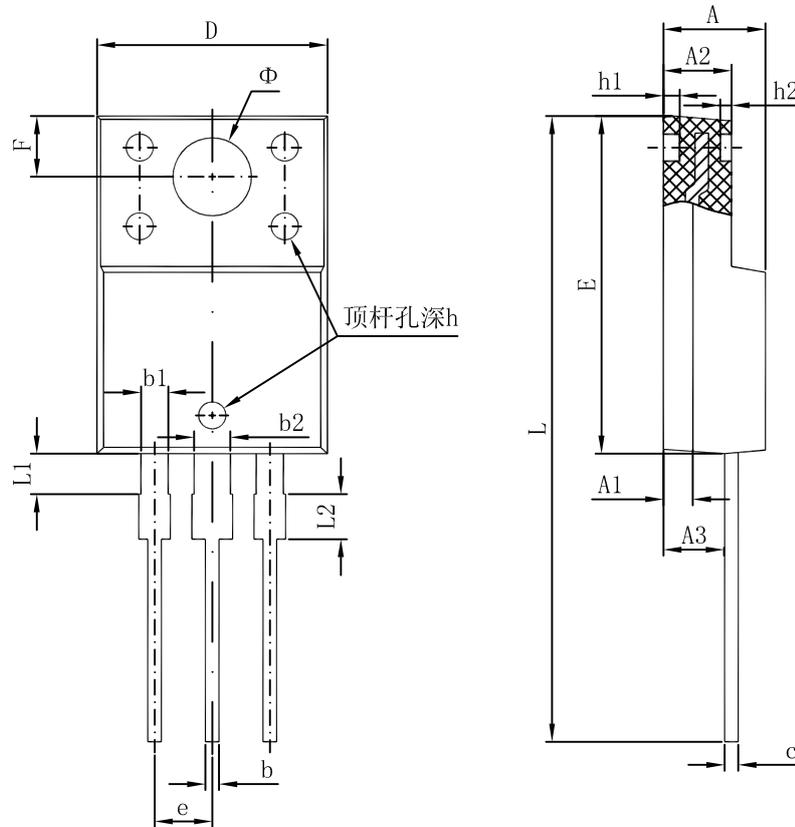


FIG.4-TYPICAL FORWARD CHARACTERISTICS





TO-220F(ITO-220AB-3) Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.300	4.700	0.169	0.185
A1	1.300 REF.		0.051 REF.	
A2	2.800	3.200	0.110	0.126
A3	2.500	2.900	0.098	0.114
b	0.500	0.750	0.020	0.030
b1	1.100	1.350	0.043	0.053
b2	1.500	1.750	0.059	0.069
c	0.500	0.750	0.020	0.030
D	9.960	10.360	0.392	0.408
E	14.800	15.200	0.583	0.598
e	2.540 TYP.		0.100 TYP.	
F	2.700 REF.		0.106 REF.	
Φ	3.500 REF.		0.138 REF.	
h	0.000	0.300	0.000	0.012
h1	0.800 REF.		0.031 REF.	
h2	0.500 REF.		0.020 REF.	
L	28.000	28.400	1.102	1.118
L1	1.700	1.900	0.067	0.075
L2	1.900	2.100	0.075	0.083



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