

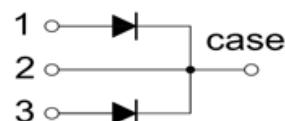


## Features

Schottky Barrier Chip  
Guard Ring Die Construction for Transient Protection  
Low Power Loss, High Efficiency  
High Surge Capability  
High Current Capability and Low Forward Voltage Drop  
For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



TO-220F



## Absolute Maximum Ratings (T<sub>c</sub>=25°C)

Symbol	Parameter	Value	Unit
V <sub>RRM</sub>	Peak repetitive reverse voltage		
V <sub>RWM</sub>	Working peak reverse voltage	200	V
V <sub>R</sub>	DC blocking voltage		
V <sub>R(RMS)</sub>	RMS reverse voltage	140	V
I <sub>o</sub>	Average rectified output current	20	A
I <sub>FSM</sub>	Non-Repetitive peak forward surge current 8.3ms half sine wave	150	A
P <sub>D</sub>	Power dissipation	2	W
R <sub>θJA</sub>	Thermal resistance from junction to ambient	50	°C/W
T <sub>j</sub>	Junction temperature	125	°C
T <sub>stg</sub>	Storage temperature	-55~+150	°C

## Electrical Characteristics (T<sub>c</sub>=25°C)

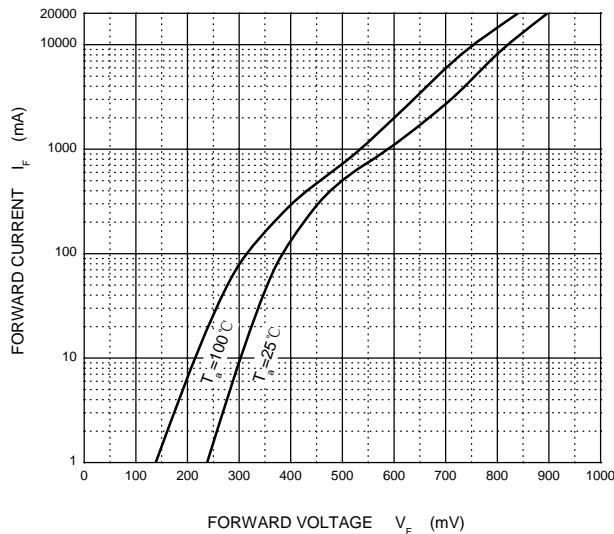
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V <sub>(BR)</sub>	I <sub>R</sub> =1mA	200			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =200V			0.1	mA
Forward voltage	V <sub>F1</sub>	I <sub>F</sub> = 10A			1	V
	V <sub>F2</sub> *	I <sub>F</sub> = 20A			1.2	

\*Pulst test

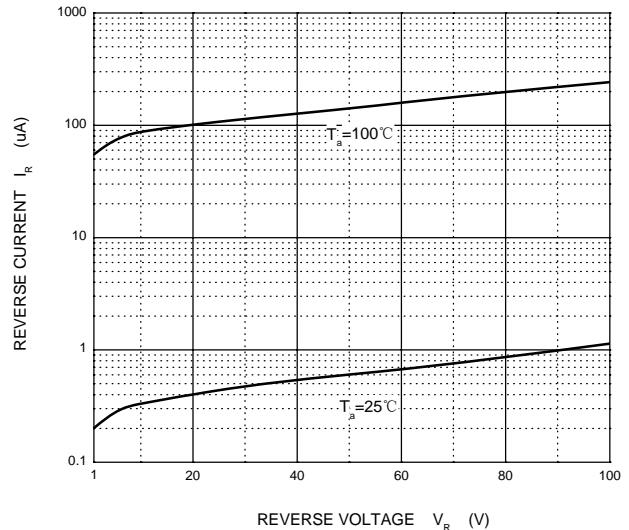


### Typical Characteristics

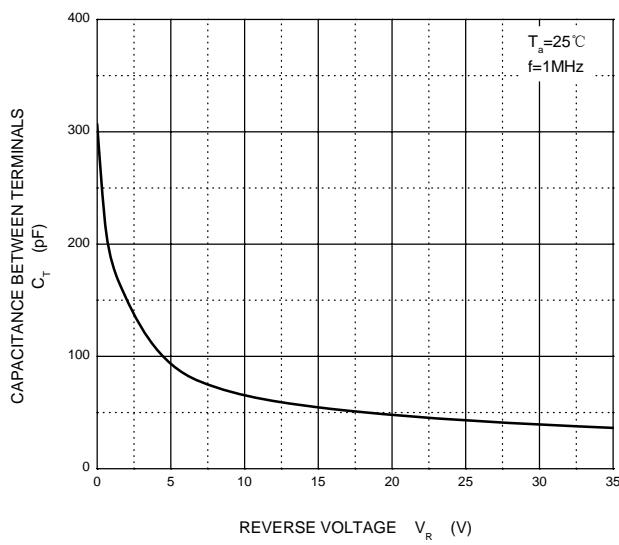
Forward Characteristics



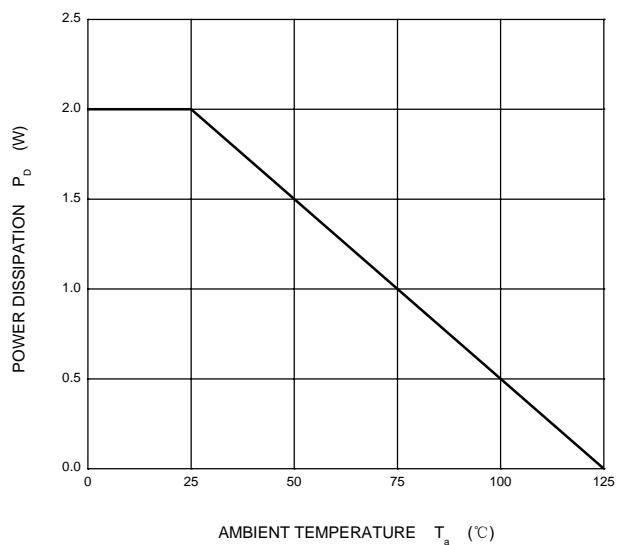
Reverse Characteristics



Capacitance Characteristics

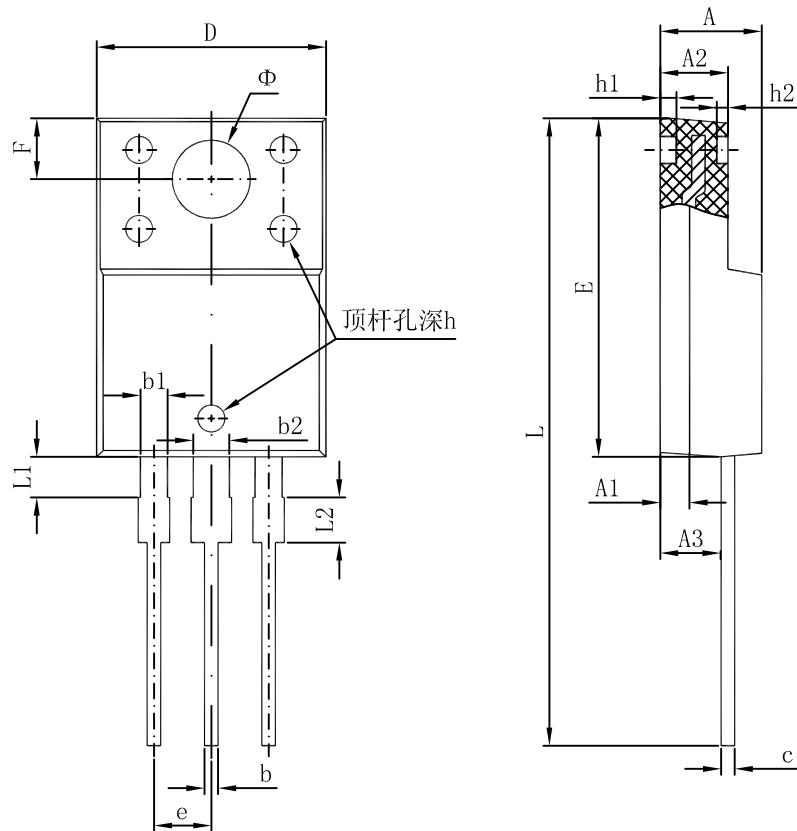


Power Derating Curve





### TO-220F 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.
$\Phi$	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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