

Features

Low power loss, high efficiency.

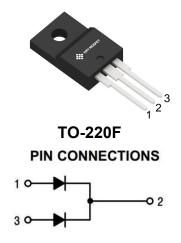
High surge capacity

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.



Absolute Maximum Ratings (Tc=25°C)

			-	
Paraameter		Symbol	Limit	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200 V	
Maximum RMS Voltage		V_{RMS}	140	V
Maximum DC Blocking Voltage		V _{R(DC)}	200	V
Maximum Average Forward Current		I _{F(AV)}	30	А
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	200	А
Maximum Forward Voltage at 15A per leg		V _F	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Tj=25°C		0.1	mA
	Tj=125°C	I _R	20	mA
Maximum Operating Junction Temperature		Tj	175	°C
Storage Temperature		T _{stg}	-65~+175	°C
Typical Thermal Resistance		R _{θJC}	1.4	°C/W



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

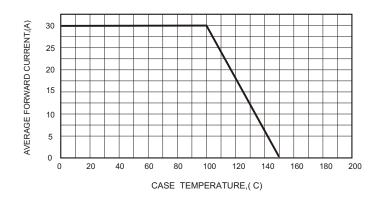


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

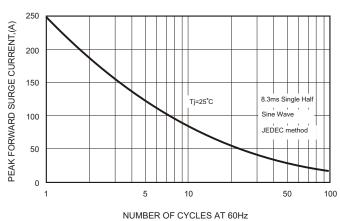


FIG.4-TYPICAL JUNCTION CAPACITANCE

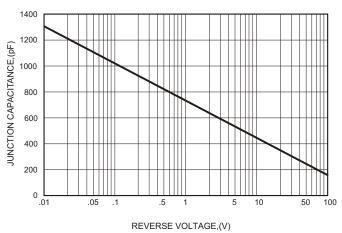


FIG.2-TYPICAL FORWARD

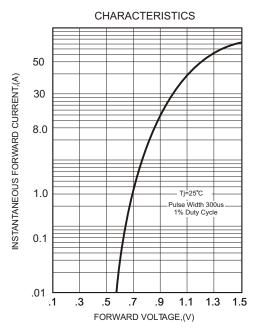
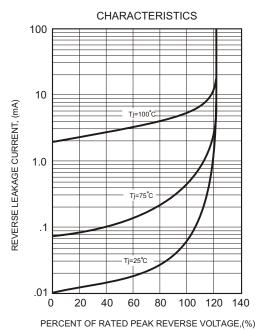
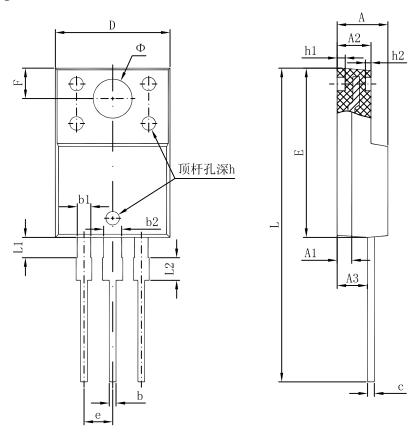


FIG.5 - TYPICAL REVERSE





TO-220F Package Information



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min.	Max.	Min.	Max.	
Α	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	
С	0.500	0.750	0.020	0.030	
D	9.960	10.360	0.392	0.408	
E	14.80	15.200	0.583	0.598	
е	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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