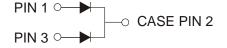


Features

- Ultrafast 35ns Recovery Times
- High Voltage Capability to 400V
- Low Reverse Leakage Current



TO-220F



Maximum Ratings (Ta=25°C unless otherwise noted)

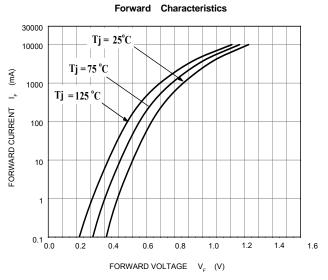
Symbol	Parameter	Value	Unit				
V_{RRM}	Peak repetitive reverse voltage	400	V				
V _{RWM}	Working peak reverse voltage	400	V				
V _R	DC blocking voltage	400	V				
V _{R(RMS)}	RMS reverse voltage	280	V				
lo	Average rectified output current@ Per leg	5	Α				
	Average rectified output current@ Total device	10	Α				
I _{FSM}	Non-Repetitive peak forward surge current 8.3ms half sine wave	70	Α				
P _D	Power dissipation	2	W				
R _{OJA}	Thermal resistance from junction to ambient	62.5	°C/W				
Tj	Operating Junction Temperature Range	-55 ~ +150	$^{\circ}$				
T _{stg}	Storage Temperature Range	-55 ~ +150	Ç				

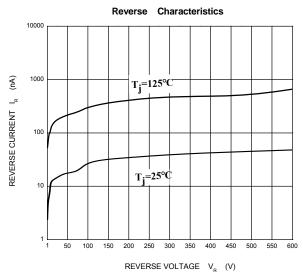
Electrical Characteristics (Ta=25°C unless otherwise specified)

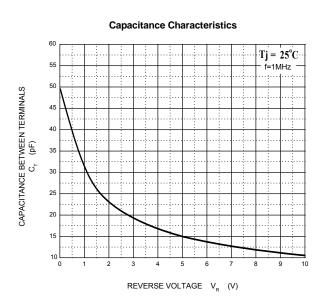
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I _R =100uA		400			V
Reverse current	I _R	V _R =400V	Tj =25℃		0.2	1	uA
Neverse current			Tj =125℃		1.0		uA
Famusard valtage	V _F	I==5.0A	Tj =25℃		1.25	1.4	V
Forward voltage		IF-5.0A	Tj =125℃		1.10		V
Typical total capacitance	C _{tot}	V _R =4.0V,f=1MHz			16		pF
Reverse recovery time t_{rr} $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.2$		=1A,I _{rr} =0.25A			35	ns	



Typical Characteristics







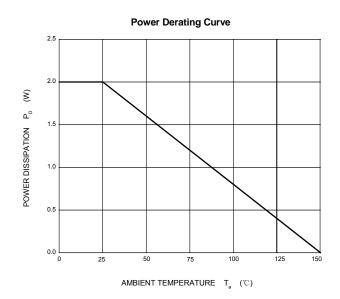
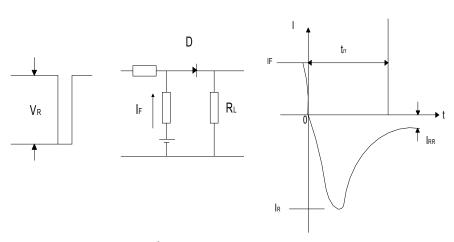
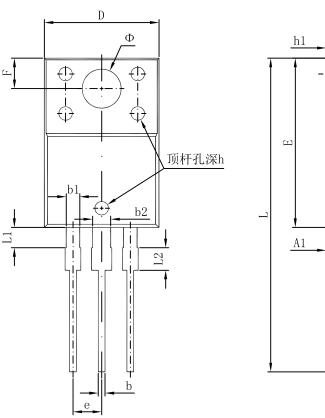
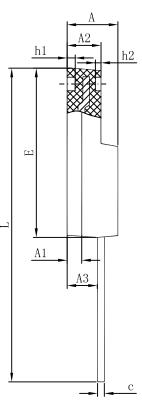


Diagram of circuit and Testing wave form of reverse recovery time



Package Information TO-220F





Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	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	14.800	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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