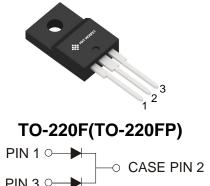


Features

- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106



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

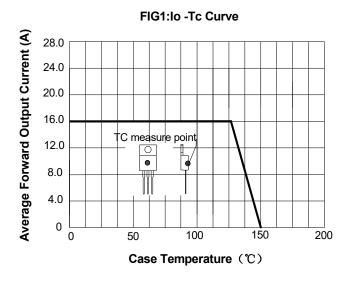
Symbol	Parameter	Value	Unit
VRRM	Peak repetitive reverse voltage	200	V
lo	Average rectified output current@ Per leg	16	Α
Ігѕм	Non-Repetitive peak forward surge current	100	А
	8.3ms half sine wave	100	
R⊚JC	Thermal Resistance Between junction and case	2.0	°C/W
Tj	Operating Junction Temperature Range	-55 ~ +150	°C
Tstg	Storage Temperature Range	-55 ~ +150	°C

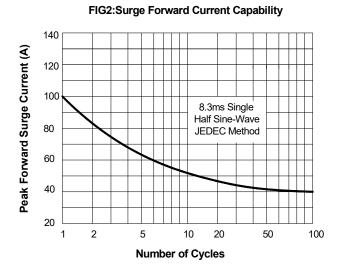
Electrical Characteristics (Ta=25°C unless otherwise specified)

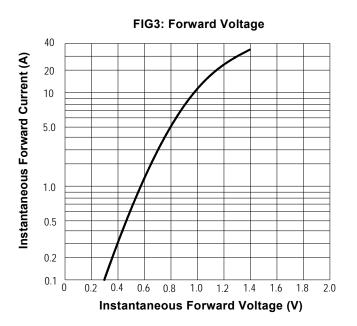
Parameter	Symbol	Unit	Test Conditions	MURF1620CTG
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=8.0A	1.0
Maximum DC reverse current at	IRRM1	uA	VRM=VRRM Ta=25℃	10
rated DC blocking voltage per diode	IRRM2		VRM=VRRM Ta=125°C	100
Reverse Recovery Time	Trr	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A	35



Typical Characteristics







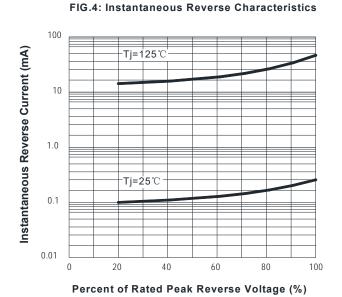
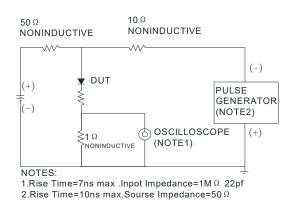
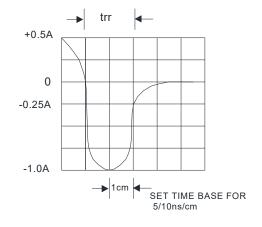


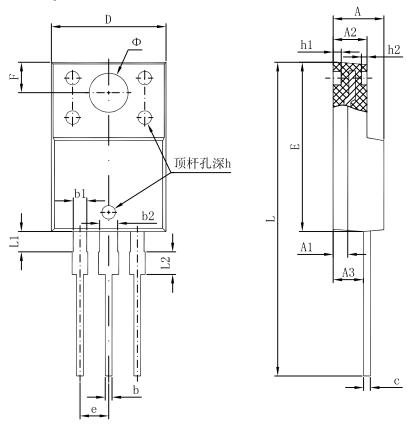
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time







Package Information TO-220F(TO-220FP)



Cymbal	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	
Е	14.800	15.200	0.583	0.598	
е	2.540 TYP.		0.100 TYP.		
F	2.700 REF.		0.106 REF.		
Ф	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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