

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



TO-220F(TO-220FP)

PIN 1 O CASE PIN 2

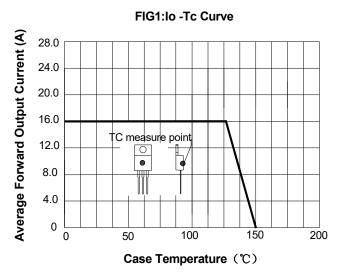
Maximum Ratings (Ta=25°C unless otherwise noted)

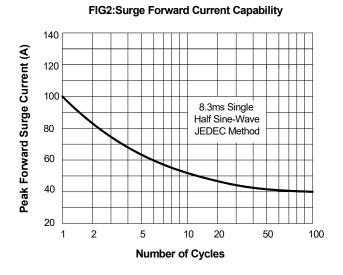
Symbol	Parameter	Value	Unit
V _{RRM}	Peak repetitive reverse voltage	200	V
lo	Average rectified output current@ Per leg	16	Α
I _{FSM}	Non-Repetitive peak forward surge current	100	А
	8.3ms half sine wave	100	
R _{OJC}	Thermal Resistance Between junction and case	2.0	°C/W
Tj	Operating Junction Temperature Range	-55 ~ +150	°C
T _{stg}	Storage Temperature Range	-55 ~ +150	°C

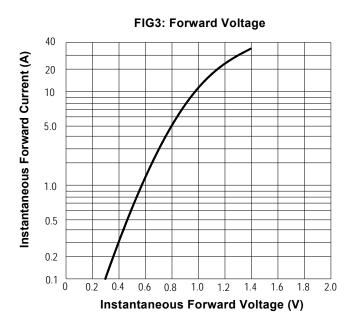
Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Unit	Test Conditions	MURF1620CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=8.0A	1.0
Maximum DC reverse current at	IRRM1		VRM=VRRM Ta=25℃	10
rated DC blocking voltage per diode	IRRM2	M2 uA	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







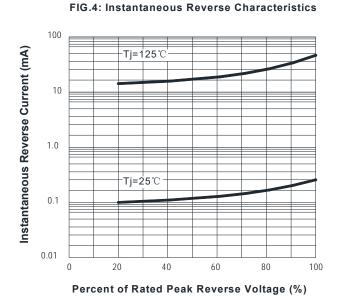
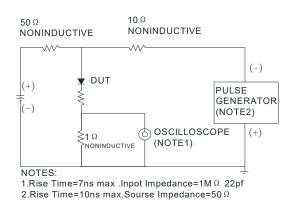
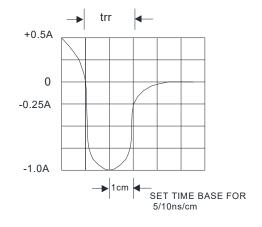


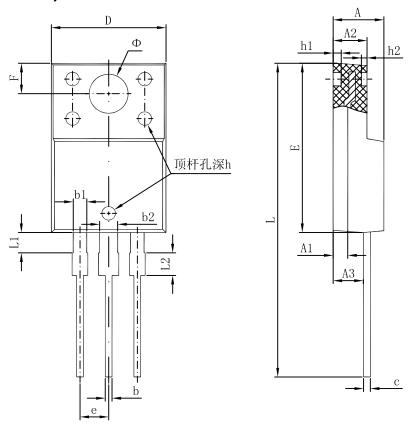
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time







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



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	
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	



Attention

- Any and all HUA XUAN YANG ELECTRONICS products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your HUA XUAN YANG ELECTRONICS representative nearest you before using any HUA XUAN YANG ELECTRONICS products described or contained herein in such applications.
- HUA XUAN YANG ELECTRONICS assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all HUA XUAN YANG ELECTRONICS products described or contained herein.
- Specifications of any and all HUA XUAN YANG ELECTRONICS products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- HUA XUAN YANG ELECTRONICS CO.,LTD. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with some probability. It is possible that these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits and error prevention circuits for safe design, redundant design, and structural design.
- In the event that any or all HUA XUAN YANG ELECTRONICS products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from the authorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of HUA XUAN YANG ELECTRONICS CO.,LTD.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production.

 HUA XUAN YANG ELECTRONICS believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the HUA XUAN YANG ELECTRONICS product that you intend to use.