



## Ultra-Fast Recovery Diodes

Reverse Voltage-600V

Forward current- 10A

### Features

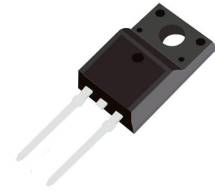
Ultra-Fast Recovery chip

Fast reverse recovery time

Ideal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability



TO-220F

### Mechanical Data

Package: TO-220F

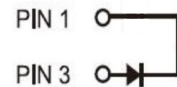
Terminals: Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant



### Maximum Ratings (Ta=25°C Unless otherwise specified)

Type Number	SYMBOL	MURF1060AC	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	600	V
Maximum RMS Voltage	$V_{RMS}$	420	V
Maximum DC Blocking Voltage	$V_{DC}$	600	V
Maximum Average Forward Rectified Current	$I_{O(AV)}$	10.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	120.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		240.0	A
Current squared time @1ms≤t8.3≤ms Tj=25°C, Rating of per diode	$I^2t$	59.76	A <sup>2</sup> S
Maximum Forward Voltage at10.0A DC	$V_{FM}$	1.7	V
Maximum Reverse Current TA = 25°C	IR	5	uA
at Rated DC Blocking Voltage TA = 110°C		200	
Reverse Recovery Time	Trr	35	ns
Typical Thermal Resistance Between junction andambient Between Junction and Case	RQJa	75.0	°C/W
	RQJc	4.0	
Operating Junction Temperature Range	TJ	—55to+150	°C
Storage Temperature Range	TSTG	—55to+150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

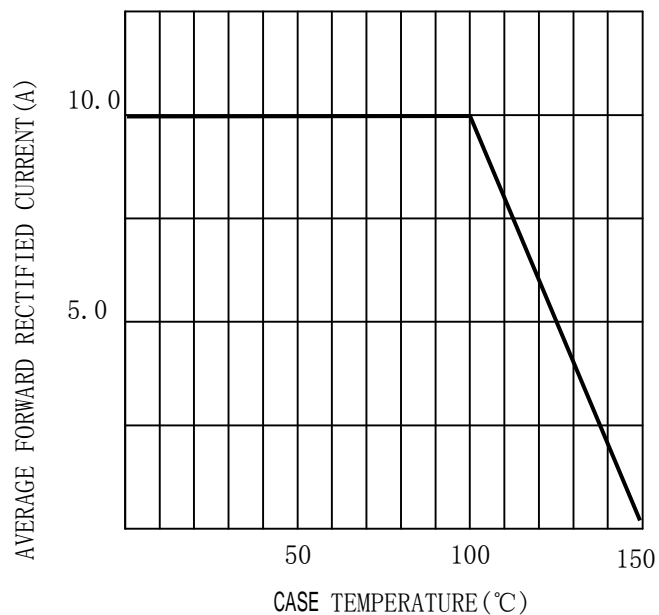


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

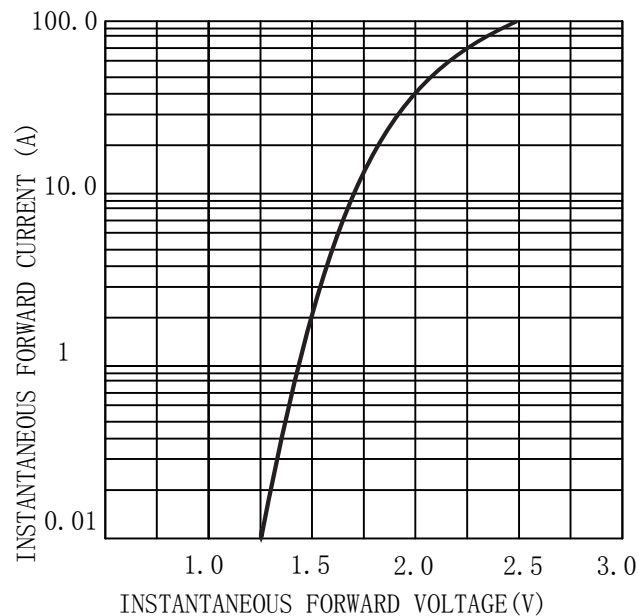


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

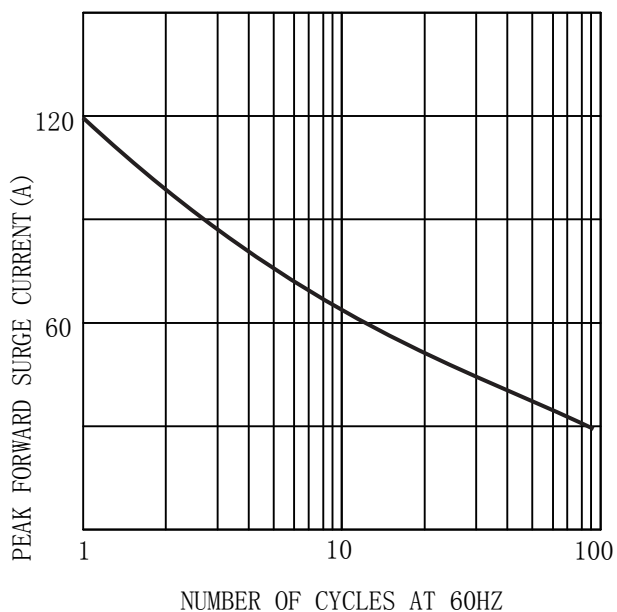
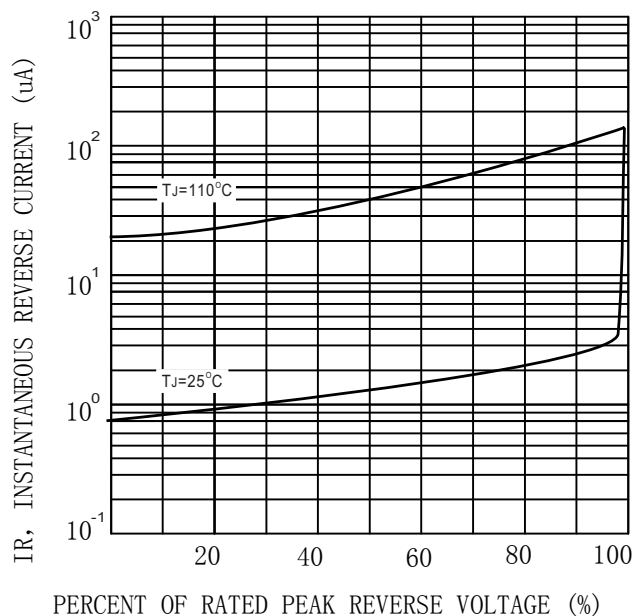


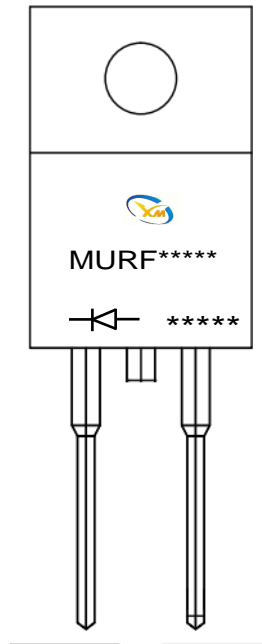
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)






## MARKING INFORMATION

TO-220F/FAC



—|<— = Polar line

 = Logo

\*\*\*\*\* = Date Code Marking

MURF\*\*\*\*\* = Marking Code

## Package Outline Dimensions millimeters

TO-220F/AC					
DIM	INCHES		MM		NOTE
	min	max	min	max	
A	—	0.41	—	10.30	
B	0.61	0.64	15.60	16.20	
C	0.18	0.19	4.50	4.90	
D	0.26	0.28	6.60	7.00	
E	0.50	0.53	12.80	13.40	
a	0.10	0.10	2.45	2.65	
b	—	0.16	—	4.10	
c	0.03	0.04	0.72	0.92	
d	0.02	0.02	0.40	0.60	
e	—	0.15	—	3.80	Ø
f	0.09	0.11	2.40	2.80	



## **Important Statements and disclaimers.**

Do not copy or modify file information without permission.

Xumao Micro reserves the right to modify this document and its products.

Specifications are available without prior notice. Customer shall obtain and confirm the latest product information and specifications prior to final design, purchase or use.

Xumao Micro does not assume any implied warranties, including warranties of fitness for special purposes, non-infringement and merchantability.

The products shown here are not designed and licensed for demanding equipment at a level of reliability or for human life and any life-saving related applications or life-sustaining, such as medical devices, transportation equipment, aerospace machinery, and so on. Customers who use or sell these products for such applications do so at their own risk.

As Xumao Micro uses batch number as tracking benchmark, please provide batch number for tracking in case of exception.