



MUR30H65-T72

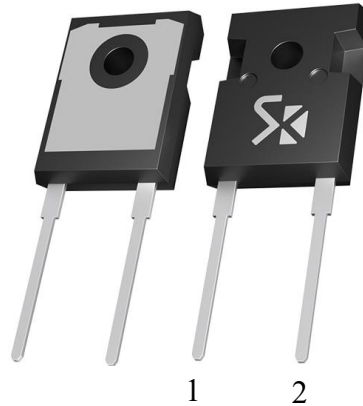
Fast Recovery Diode

Features

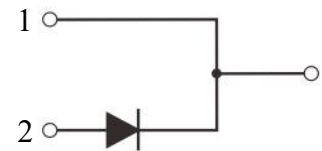
- Planar construction
- Ultra fast recovery
- Soft recovery characteristics
- Low stored charge
- Low leakage current

Applications

- Switching Mode Power Supplies
- Power Switching Circuits
- Motor Controls
- Inverters, Converters



TO-247-2L



1. CATHODE
2. ANODE

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ Unless otherwise specified)

Parameter	Symbol	Value	Unit
DC Blocking Voltage	V_{RRM}	650	V
Average Rectified forward Current	$I_{F(AV)}$	30	A
Non-repetitive Peak Surge Current@8.3ms	I_{FSM}	300	A
Junction Temperature	T_J	175	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55~+175	$^\circ\text{C}$

Electrical Characteristics($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test condition	Min	Typ	Max	Units
Reverse Breakdown Voltage	V_{BR}	$I_R=1\text{mA}$	650			V
Forward Voltage	V_F	$I_F=30\text{A}$, $T_A=25^\circ\text{C}$			2.4	V
		$I_F=30\text{A}$, $T_A=125^\circ\text{C}$		2.0		
Reverse Current	I_R	$V_R=650$			1	μA
Reverse Recovery Time	T_{rr}	$I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$		33		ns
		$I_F=1\text{A}$, $V_R=30\text{V}$, $di/dt=-200\text{A}/\mu\text{s}$		24		ns
Total Capacitance	C_{tot}	$V_R=200\text{V}$, $f=1\text{MHz}$		33.5		pF



MUR30H65-T72

Typical Characteristics

Figure 1. Forward Characteristics

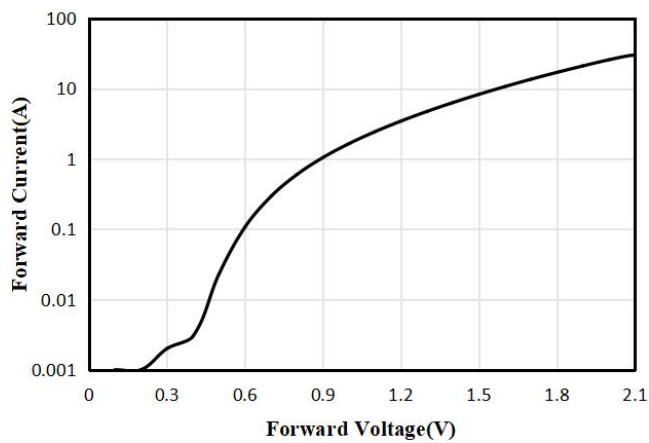


Figure 2. Reverse Characteristics

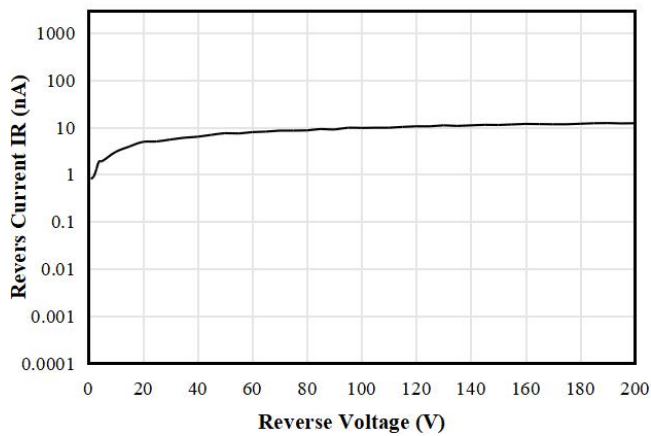
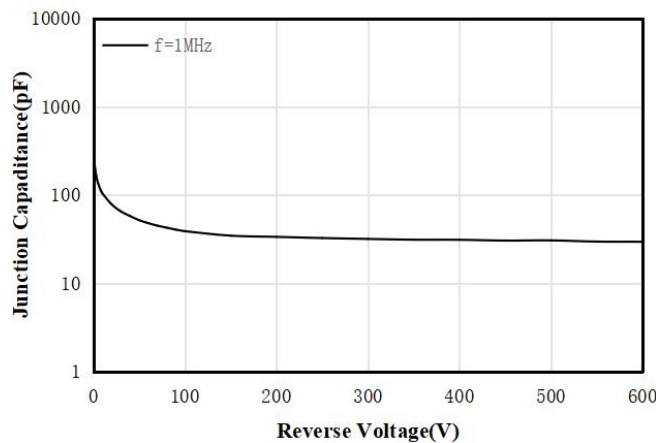


Figure 3. Capacitance Characteristics



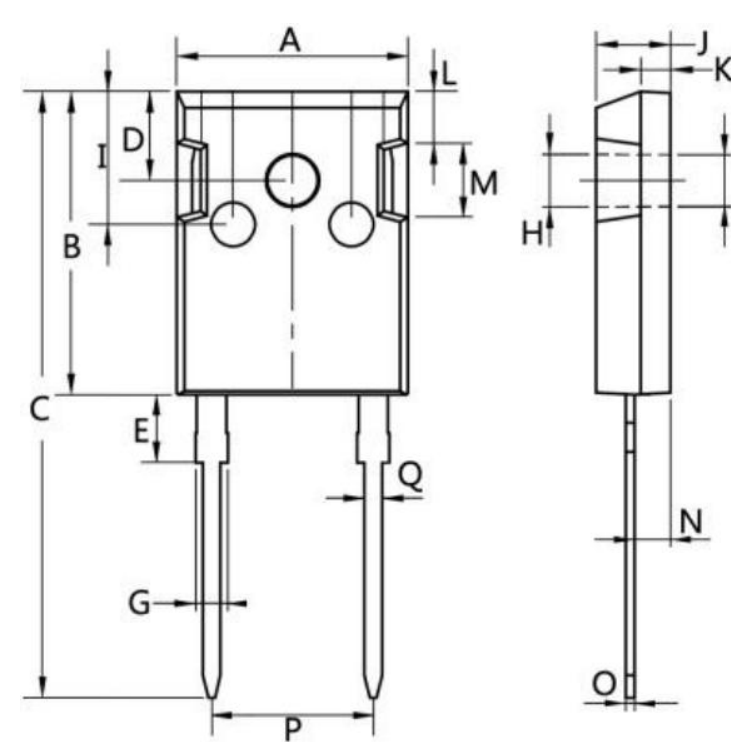


MUR30H65-T72

Package Information

TO-247-2L

Dimensions in mm



Symbol	Dimensions in millimeter	
	Min	Max
A	15.0	16.0
B	20.0	21.0
C	40.0	42.0
D	5.5	6.5
E	4.0	5.5
G	1.75	2.5
H	3.0	4.0
I	8.0	10.0
J	4.9	5.1
K	1.9	2.1
L	3.0	4.0
M	4.75	5.25
N	2.0	3.0
O	0.55	0.65
P	10.8 Typ	
Q	1.2	13



Shikues Disclaimer

1.Accuracy of Information and Right to Modify

The information provided in this document is for reference only. Shikues reserves the right to make changes to this document and to the specifications of the products described herein at any time, without prior notice, for the purpose of improving reliability, function, design, or for any other reason. It is the customer's responsibility to obtain and verify the latest product information and specifications before making any final design, procurement, or usage decisions.

2.No Warranty

Shikues makes no express or implied warranties, representations, or guarantees regarding the suitability of its products for any particular purpose.

Shikues assumes no liability for any assistance provided or for the design of customer products. All products are supplied "as is."

3.Intended Use and Limitation of Liability

The products described in this document are intended for use in general-purpose electronic devices. They are neither designed nor tested nor authorized for use in transportation equipment or applications requiring high reliability. Unless expressly authorized in writing by Shikues, these products must not be used as critical components in life-support systems or any applications where failure could directly pose a risk to human life (including, but not limited to, medical devices, transportation systems, aerospace equipment, nuclear facilities, and safety-critical systems).

Shikues assumes no responsibility or liability for any consequences arising from the use of its products in unauthorized or unintended applications.

Neither Shikues nor its representatives shall be held liable for any resulting damages.

4.Intellectual Property

This document does not grant any express or implied license—whether by estoppel, implication, or otherwise—to use any intellectual property rights of Shikues.