

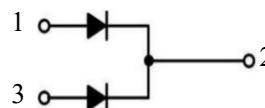


SK90U150-T7

Schottky Rectifier

Features

- Low forward voltage drop
- High efficiency and low power loss
- High frequency operation



TO-247

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

Parameter	Symbol	Limit	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Average forward current	$I_{F(AV)}$	45	A
Junction temperature range	T_J	$-55\sim+150$	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

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

Parameter	Symbol	Test condition	Min	Typ	Max	Units
Repetitive Peak Reverse Voltage	V_{RRM}	$I_R=0.5\text{mA}$	150			V
Forward Voltage Drop	V_F	$I_F=3\text{A}$		0.65	0.7	V
		$I_F=10\text{A}$			0.8	
		$I_F=45\text{A}$			1.0	
Reverse Current	I_R	$V_R=150$		0.1	3	μA
Junction Capacitance(Per Leg)	C_T	$V_R=5\text{V}, f=1\text{MHz}$		750		pF



Typical Characteristics

Figure 1. Instantaneous Forwar Characteristics

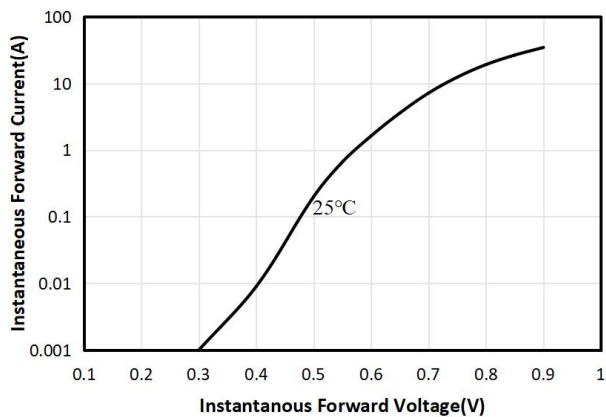


Figure 2. Typical Leakage Current

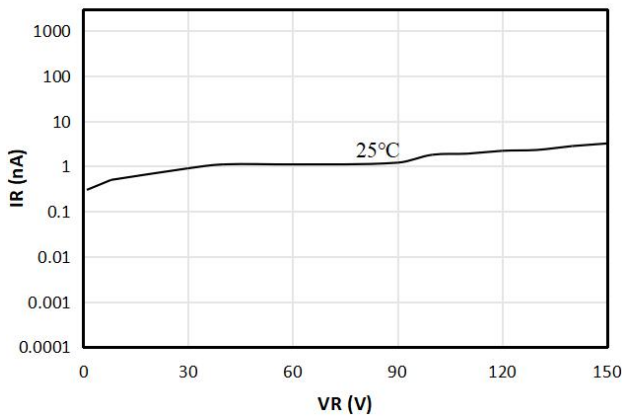
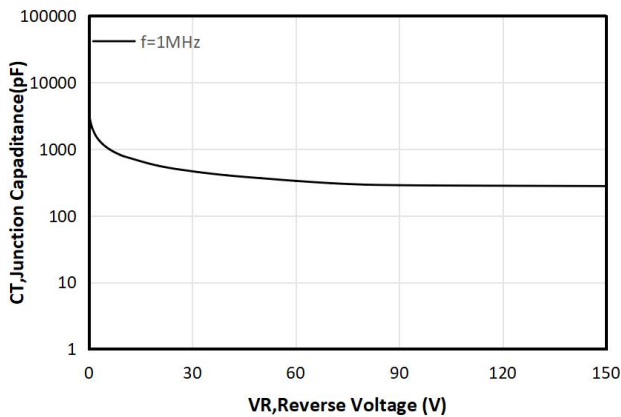


Figure 3. Typical Junction Capacitance



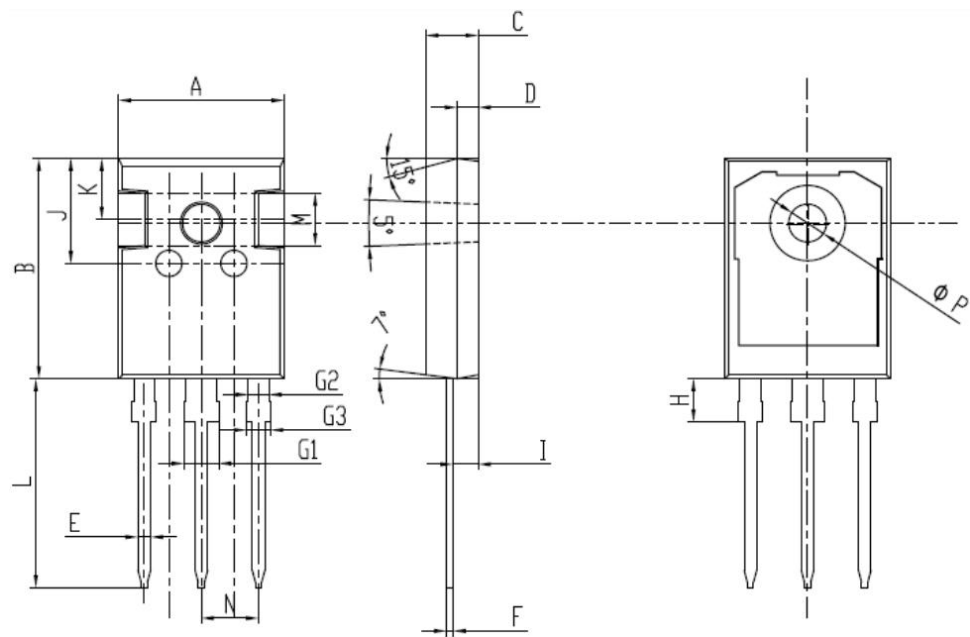


SK90U150-T7

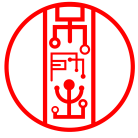
Package Information

TO-247

Dimensions in mm



	(mm)	
	MIN	MAX
A	15.70	15.90
B	20.90	21.10
C	4.90	5.10
D	1.90	2.10
E	1.10	1.30
F	0.45	0.75
G1	3.00	3.20
G2	1.85	2.15
G3	2.00	2.20
H	4.00	4.30
I	2.30	2.50
J	9.90	10.10
K	5.70	5.90
L	19.80	20.20
M	4.85	5.15
N	5.286	5.586
Φ P	3.40	3.60



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.