

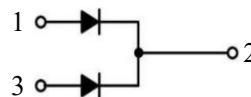


SK90U300-T7

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}	300	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}	$I_R=0.5\text{mA}$	300			V
Forward Voltage Drop	V_F	$I_F=3\text{A}$		0.7	0.75	V
		$I_F=10\text{A}$			0.85	
		$I_F=45\text{A}$			1.0	
Reverse Current	I_R	$V_R=300$		0.1	3	μA
Junction Capacitance(Per Leg)	C_T	$V_R=5\text{V}, f=1\text{MHz}$		749		pF



Typical Characteristics

Figure 1. Instantaneous Forward Characteristics

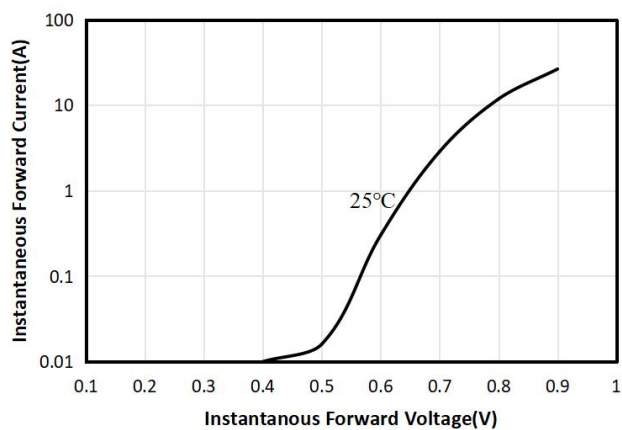


Figure 2. Typical Leakage Current

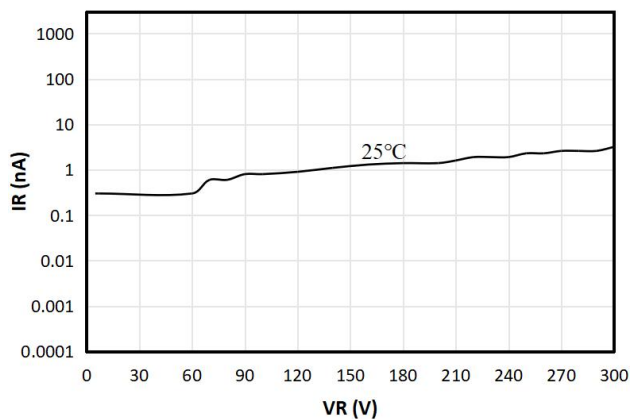
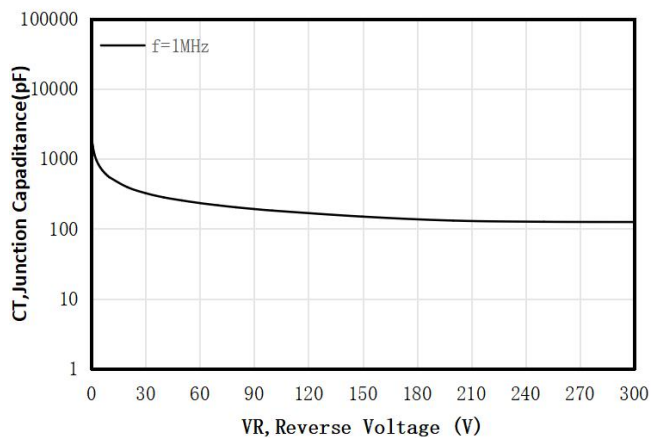


Figure 3. Typical Junction Capacitance



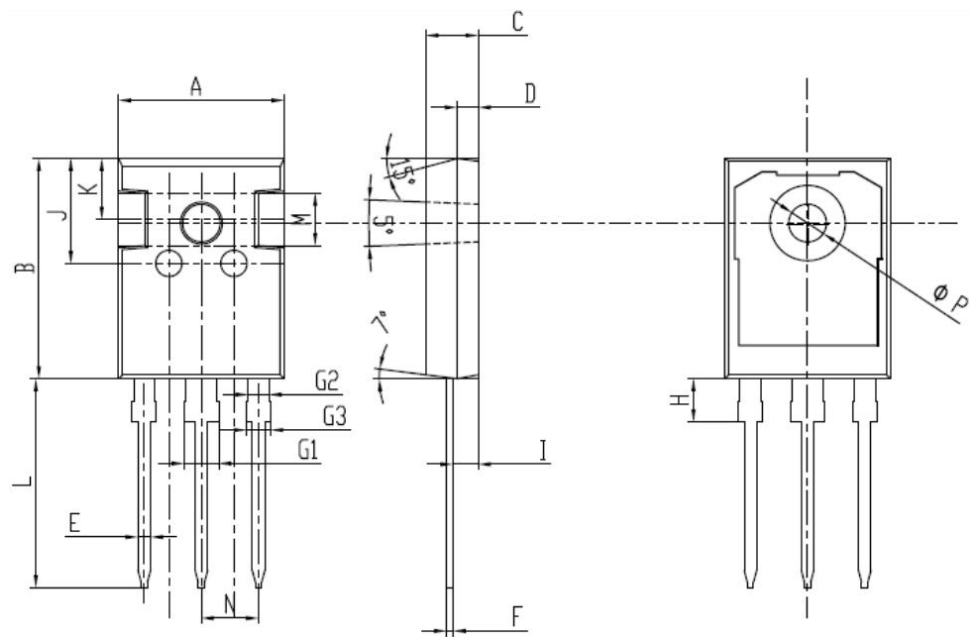


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Package Information

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



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