



SBR1040BP Schottky Barrier Bridge

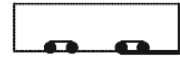
Feature

- Low Forward Voltage Drop
- Very Small SMD Package

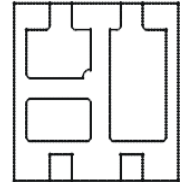
Application

- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Low Power Consumption Applications

DFN3*3-4L

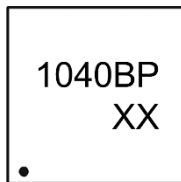


Top View



Side View

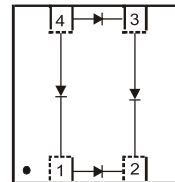
Marking:



Pin1

1040BP: Device Code
XX: Date Code

Device Schematic:



ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

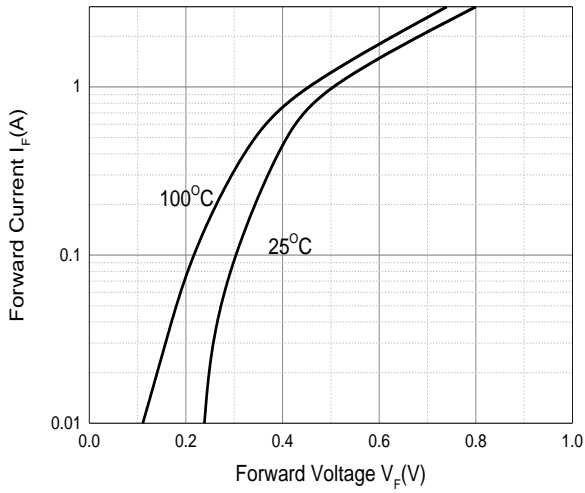
Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_R	40	V
Peak Repetitive Reverse Voltage	V_{RRM}		
Mean Rectifying Current	I_O	1	A
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	8	A
Power Dissipation	P_D	1.5	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	215	$^\circ\text{C/W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise noted)

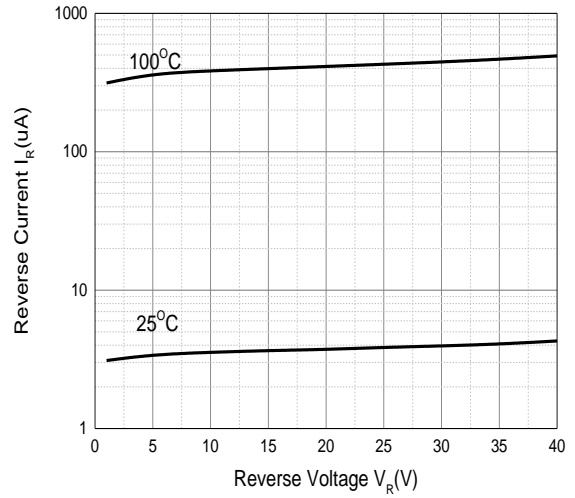
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	$I_R = 1\text{mA}$	40			V
Reverse current	I_R	$V_R = 40\text{V}$		5	30	μA
Forward voltage	V_F	$I_F = 0.1\text{A}$		0.30	0.35	V
		$I_F = 0.25\text{A}$		0.35	0.42	V
		$I_F = 0.5\text{A}$		0.40	0.49	V
		$I_F = 1\text{A}$		0.48	0.55	V

Typical Characteristics

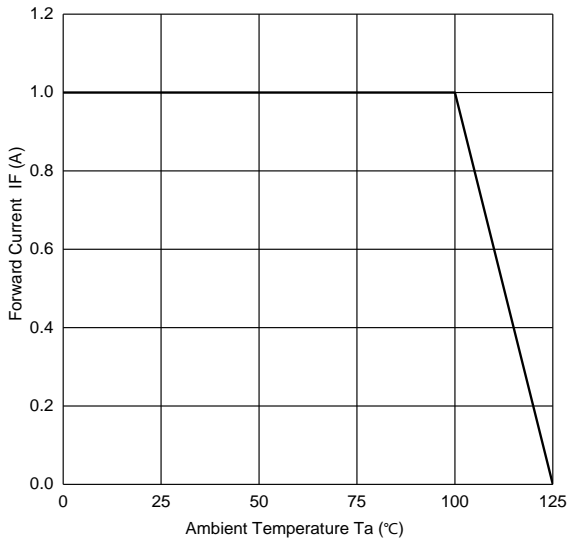
Forward Characteristics



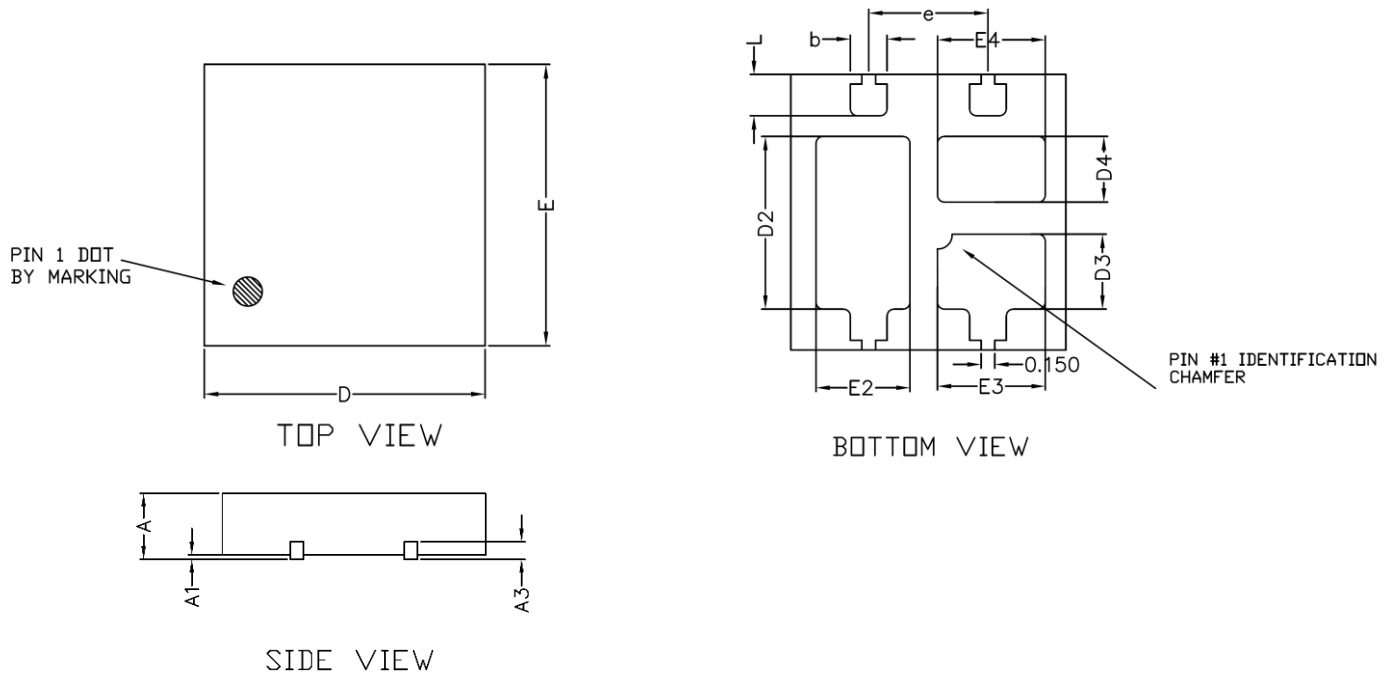
Reverse Characteristics



Forward Current Derating Curve



DFN3*3-4L Package Outline Dimensions



Symbol	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	0.70	0.75	0.80
A1	0.00	-	0.05
A3	0.20 REF		
D	2.95	3.00	3.05
E	2.95	3.00	3.05
D2	1.78	1.88	1.98
E2	0.925	1.025	1.125
D3	0.715	0.815	0.915
E3	1.125	1.175	1.225
D4	0.665	0.715	0.765
E4	1.075	1.175	1.275
b	0.35	0.40	0.45
L	0.40	0.45	0.50
e	1.30 BSC		

单击下面可查看定价，库存，交付和生命周期等信息

[>>GP\(格瑞宝\)](#)