



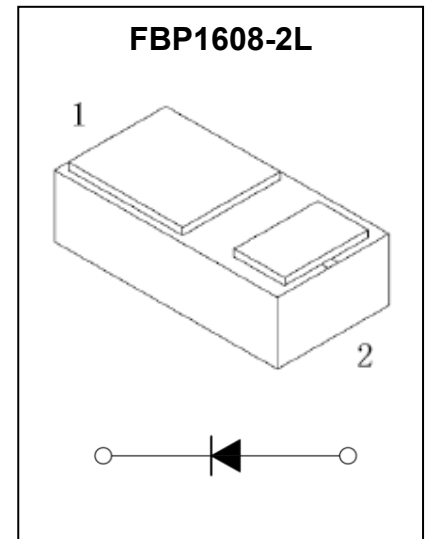
#### B1040TH Schottky Barrier Diode

##### Feature

- Low Forward Voltage Drop
- Very Small SMD Package

##### Application

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



##### MARKING:



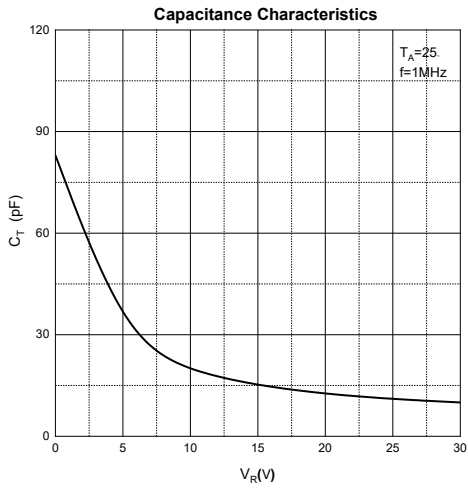
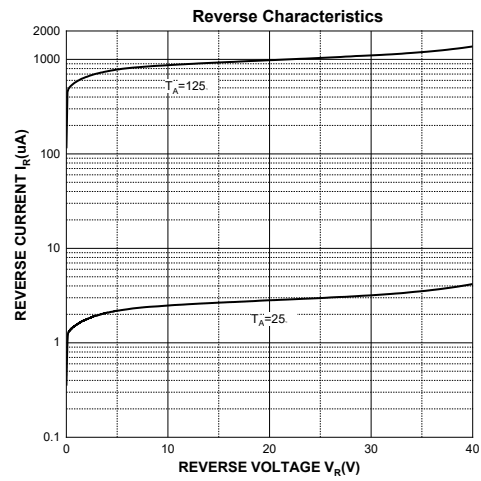
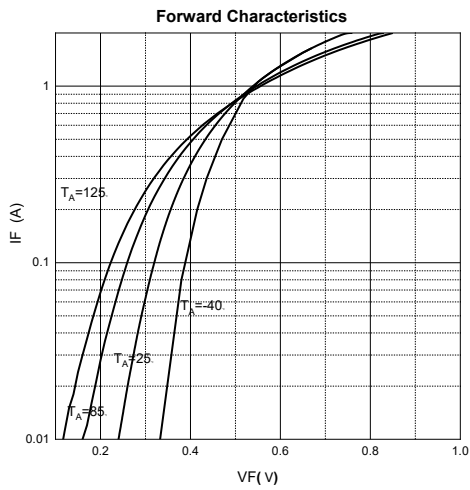
#### ABSOLUTE MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
DC reverse voltage	$V_R$	40	V
Mean rectifying current	$I_o$	2	A
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	$I_{FSM}$	7	A
Power Dissipation	$P_D$	0.1	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	1000	$^{\circ}\text{C}/\text{W}$
Junction Temperature	$T_J$	150	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-55 ~ +150	$^{\circ}\text{C}$

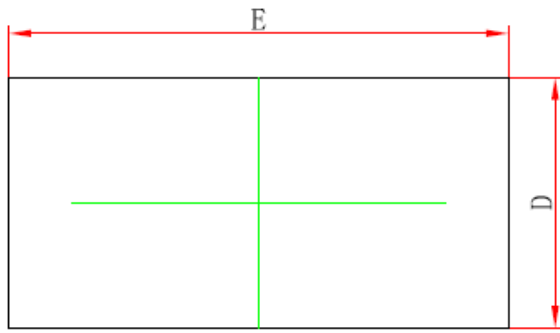
#### ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	$V_{BR}$	$I_R=1\text{mA}$	40			V
Reverse current	$I_R$	$V_R=40\text{V}$		10	40	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=0.1\text{A}$		0.35	0.38	V
		$I_F=0.5\text{A}$		0.42	0.49	V
		$I_F=0.7\text{A}$		0.47	0.55	V
		$I_F=1\text{A}$		0.51	0.61	V
		$I_F=1.5\text{A}$		0.60	0.65	V
Total capacitance	$C_{tot}$	$V_R=10\text{V}, f=1\text{MHz}$		19		pF

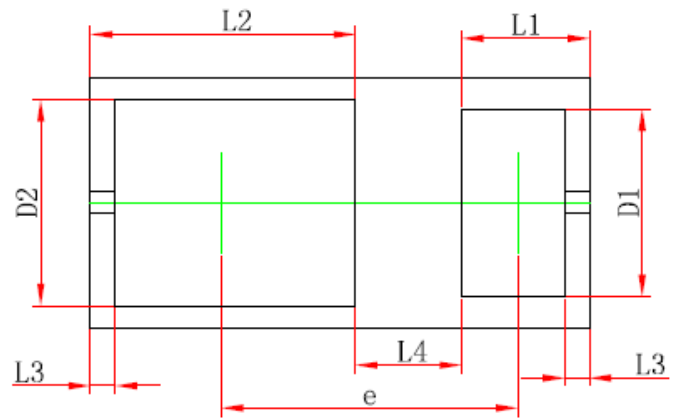
**Typical Characteristics**



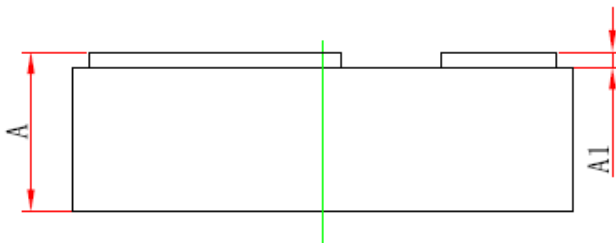
## FBP1608-2L Package Outline Dimensions



TOP VIEW  
[顶视图]



BOTTOM VIEW  
[背视图]



SIDE VIEW  
[侧视图]

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.010	0.090	0.000	0.004
D	0.750	0.850	0.030	0.033
D1	0.520	0.680	0.020	0.027
D2	0.600	0.760	0.024	0.030
E	1.550	1.650	0.061	0.065
L1	0.410 REF.		0.016 REF.	
L2	0.850 REF.		0.033 REF.	
L3	0.080 REF.		0.003 REF.	
L4	0.340 REF.		0.013 REF.	
e	0.900	1.000	0.035	0.039

**Attention:**

- GreenPower Electronics reserves the right to improve product design function and reliability without notice.
- Any and all semiconductor products have certain probability to fail or malfunction, which may result in personal injury, death or property damage. Customers are solely responsible for providing adequate safe measures when design their systems.
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