



DS520-30 Schottky Barrier Diode

Feature

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability

Application

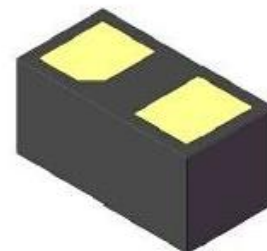
- High Speed Switch for Detection
- For Portable Equipment:(Mobile phone, MP3, MD, CD-ROM, DVD-ROM, Note book PC, etc.)

MARKING:



Front Side

DFN0603-2L



Schematic diagram



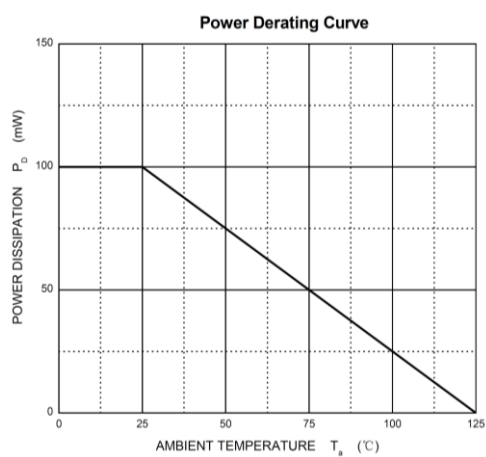
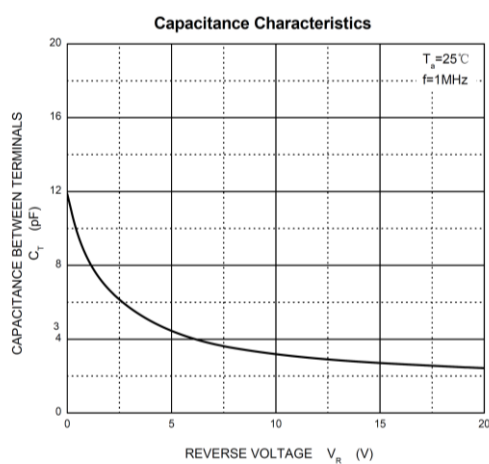
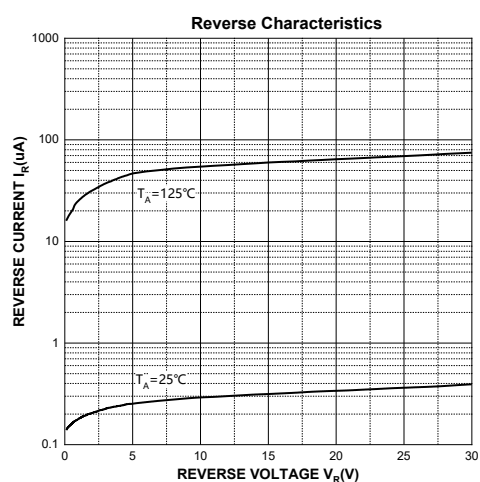
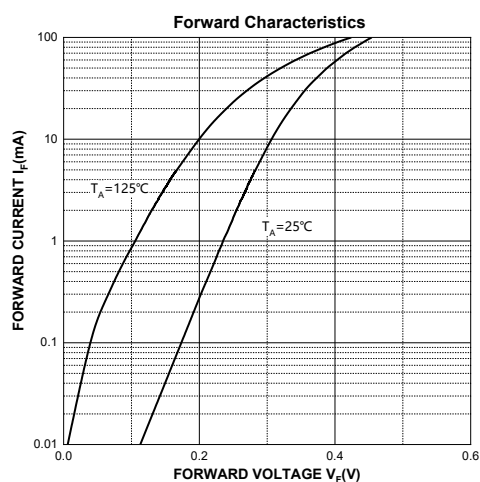
ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

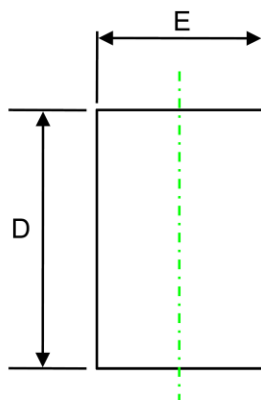
Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_R	30	V
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Mean Rectifying Current	I_O	0.1	A
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	0.5	A
Power Dissipation	P_D	100	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	1000	$^{\circ}\text{C}/\text{W}$
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)

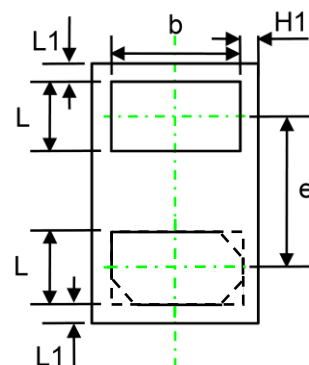
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse Voltage	V_{BR}	$I_R = 50\mu\text{A}$	30			V
Reverse Current	I_R	$V_R = 10\text{V}$			0.3	μA
		$V_R = 30\text{V}$			20	μA
Forward Voltage	V_F	$I_F = 10\text{mA}$			0.45	V
		$I_F = 100\text{mA}$			0.65	V

Typical Characteristics

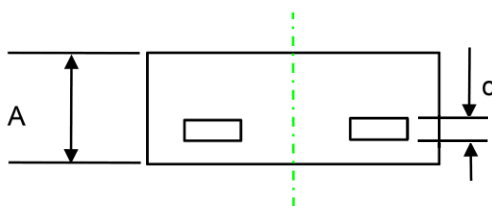


DFN0603-2L Package Outline Dimensions


TOP VIEW
[顶视图]



BOTTOM VIEW
[底视图]



SIDE VIEW
[侧视图]

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.270	0.350	0.011	0.014
E	0.250	0.350	0.010	0.014
D	0.550	0.650	0.022	0.026
b	0.200	0.300	0.008	0.012
c	0.050REF		0.002REF	
e	0.360TYP		0.014TYP	
L	0.130	0.230	0.005	0.009
L1	0.030REF		0.001REF	
H1	0.045REF		0.002REF	

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.
- GreenPower Electronics products belong to consumer electronics or other civilian electronic products.