DS520-30

30V-0.1A Schottky Barrier Diode

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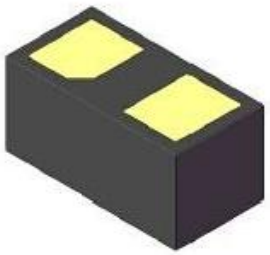
DFN0603-2L



Schematic diagram

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

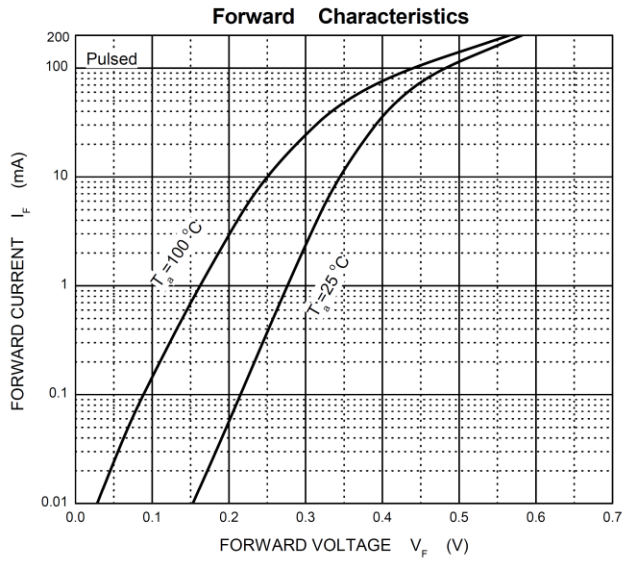
ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

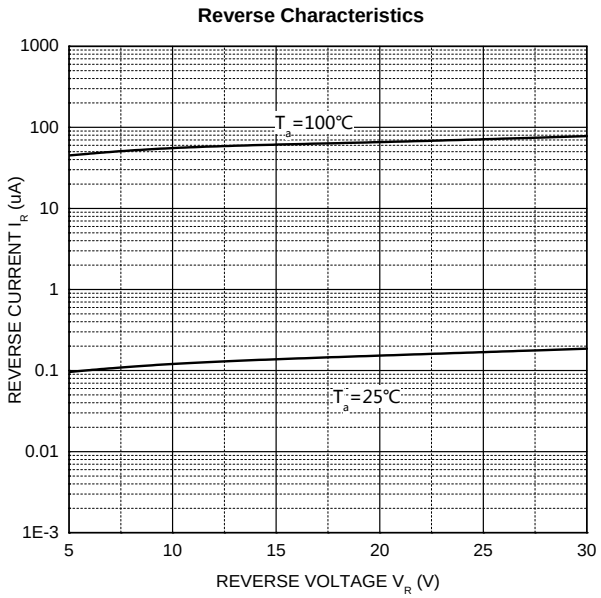
Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	30	V
RMS reverse Voltage	$V_{R(RMS)}$	21	V
Mean rectifying current	I_O	0.1	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	0.5	A
Power Dissipation	P_D	100	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	1000	℃/W
Junction Temperature	T_J	125	℃
Storage Temperature	T_{STG}	-55 ~ +150	℃

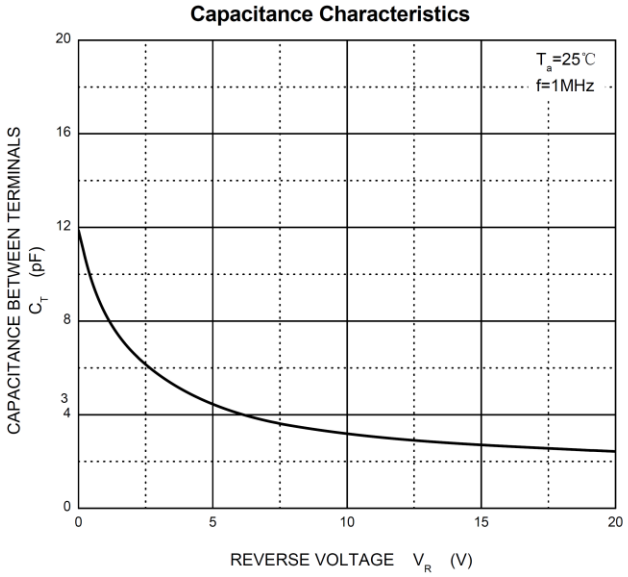
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise noted)

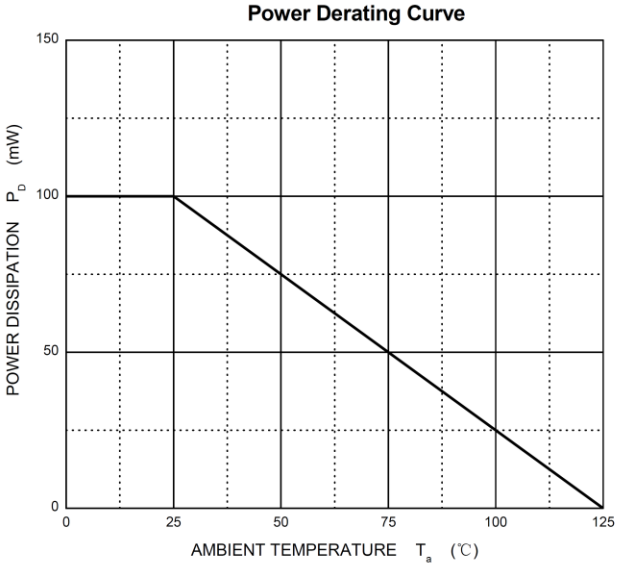
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	I_R =50uA	30			V
Reverse current	I_R	V_R =10V			0.3	μA
		V_R =30V			20	μA
Forward voltage	V_F	I_F =10mA			0.45	V
		I_F =100mA			0.65	V

Typical Characteristics

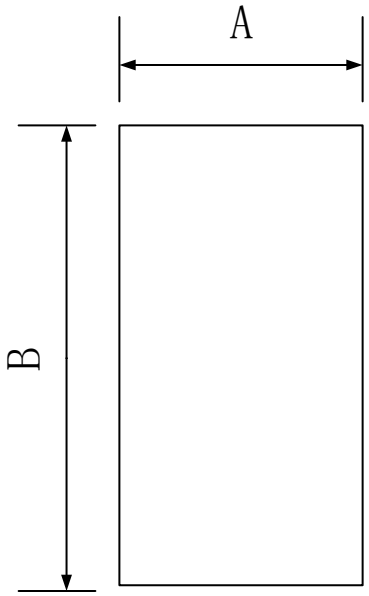




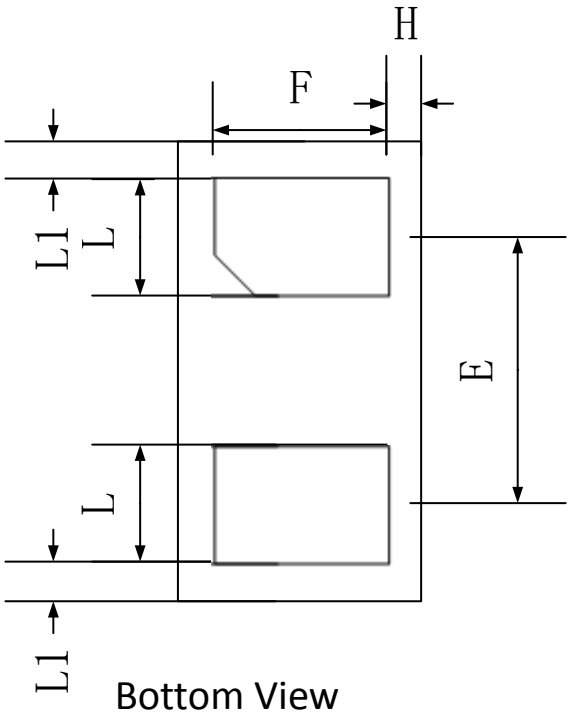




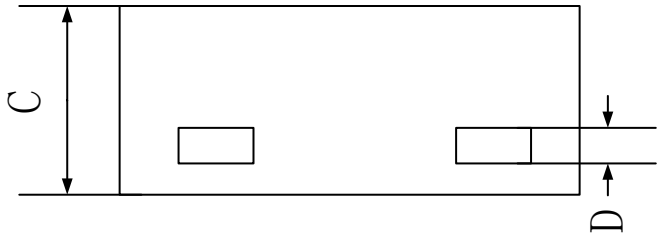
DFN0603-2L Package Outline Dimensions



Top View



Bottom View



Side View

	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	0.25	0.30	0.35
B	0.55	0.60	0.65
C	0.27	0.30	0.34
D	0.050REF		
E	-	0.35	-
F	0.20	0.25	0.35
H	0.045 REF		
L	0.13	0.18	0.23
L1	0.045REF		