

General description

General Application Schottky barrier rectifier, encapsulated in a DFN0603-2 leadless ultra small Surface-Mounted Device (SMD) plastic package.

Features and benefits

- Average forward current: $I_{F(AV)} \leq 100 \text{ mA}$
- Reverse voltage: $V_R \leq 30 \text{ V}$
- Low forward voltage: $V_F \leq 380 \text{ mV @10mA}$
- Moisture Sensitivity: Level 1 per J-STD-020
- Leadless ultra small SMD plastic package
- We declare that the material of product compliance with RoHS requirements and Halogen Free

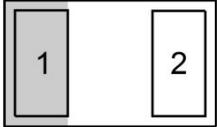
Application information

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch Mode Power Supply (SMPS)
- Reverse polarity protection
- Low power consumption applications

Ordering information

Device	Package	Marking	Packaging
PSB521ZS-30	DFN0603-2	F	10000/Tape & Reel

Schematic & Pin configuration

Simplified outline	Graphic symbol
	

Maximum Ratings ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise specified)

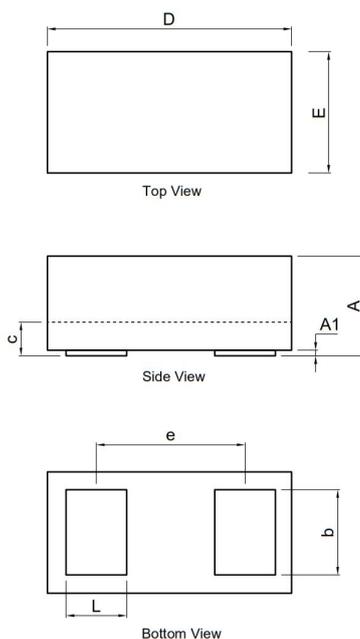
Parameter	Symbol	Value	Unit
Working peak reverse voltage	V_{RM}	30	V
RMS reverse voltage	$V_{R(RMS)}$	30	V
Average rectifierd forward current	I_O	100	mA
Forward current surge peak(60Hz · 1cyc)	I_{FSM}	500	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

Electrical Characteristics ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit	Condition
Forward voltage	V_F	--	--	0.45	V	$I_F = 10\text{mA}$
Reverse breakdown voltage	V_{BR}	30	--	--	V	$I_R = 50\mu\text{A}$
Reverse current	I_R	--	--	10	μA	$V_R = 10\text{V}$

Package Outline Dimensions

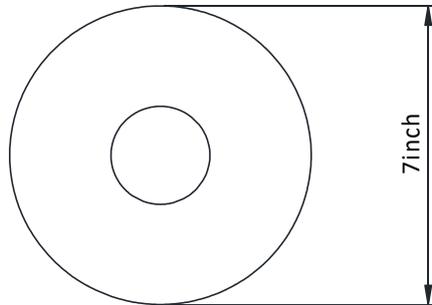
DFN0603-2



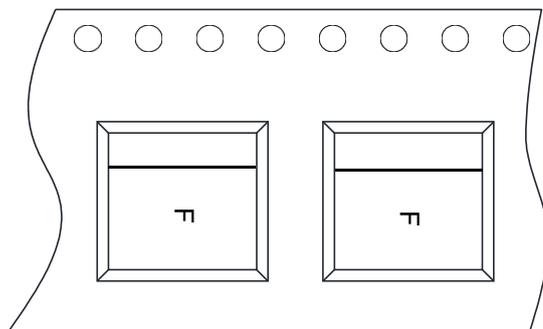
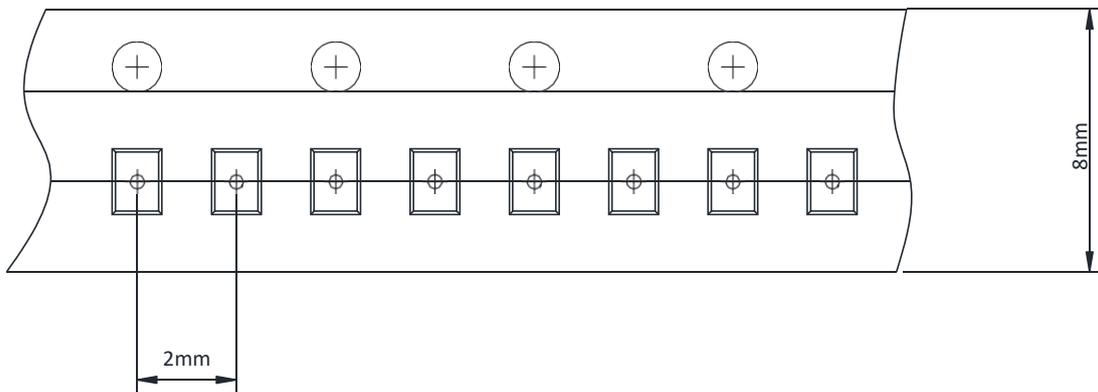
SYMBOL	Dimensions In Millimet	
	MIN	MAX
A	0.27	0.35
A1	0	0.05
b	0.20	0.32
c	0.05	0.15
D	0.55	0.65
E	0.25	0.35
L	0.13	0.24

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed