

General description

General Application Schottky barrier rectifier, encapsulated in an DFN0603-2L 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: $V_F \leq 450 \text{ mV @10mA}$
- Leadless ultra small SMD plastic package
- We declare that the material of product compliance with RoHS requirements and Halogen Free



DFN0603-2L

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	Reel Size	Qty(PCS)
RB521ZS-30	DFN0603-2L	7 Inch	15000

Ordering information

Marking	Naming rule	Graphic symbol
F	RB521ZS-30 产品名称 product name	

Maximum Ratings (T_A = 25 °C, unless otherwise specified)

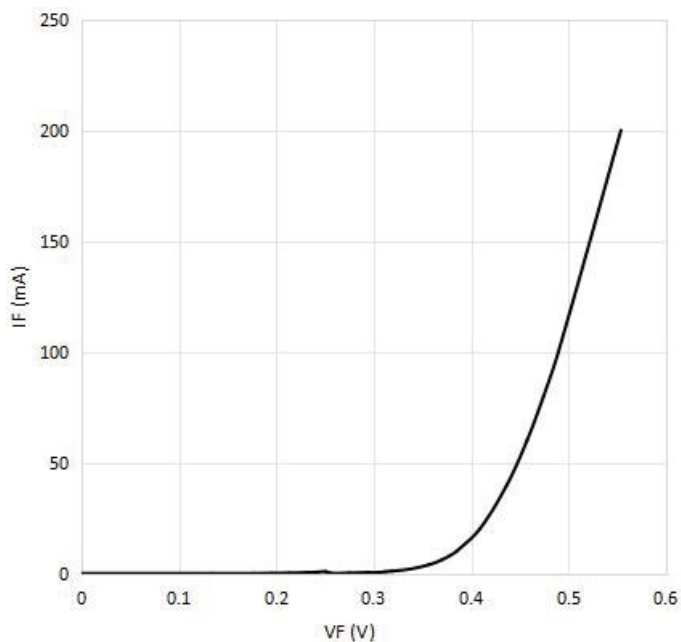
Parameter	Symbol	Value	Unit
DC reverse voltage	V _R	30	V
RMS reverse voltage	V _{R(RMS)}	30	V
Average rectifier forward current	I _O	100	mA
Forward current surge peak(60Hz · 1cyc)	I _{FSM}	500	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

Electrical Characteristics (T_A = 25 °C, unless otherwise specified)

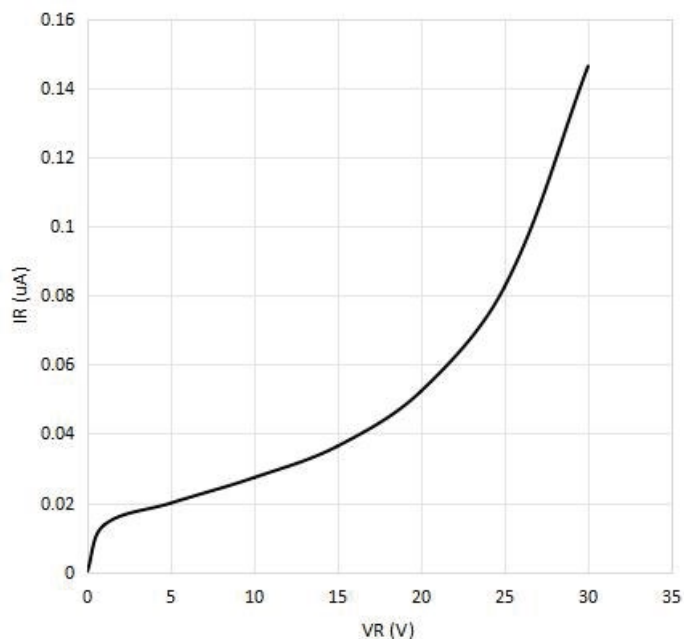
Parameter	Symbol	Min	Typ	Max	Unit	Condition
Forward voltage	V _F	--	0.39	0.45	V	I _F =10mA
Reverse breakdown voltage	V _{BR}	30	--	--	V	I _R =50uA
Reverse current	I _R	--	--	1.0	uA	V _R =10V
		--	--	3.0	uA	V _R =30V



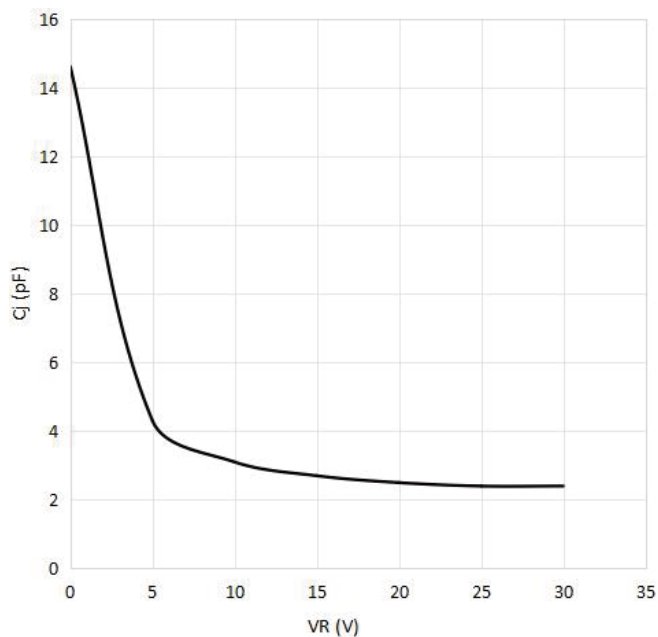
Typical Characteristics



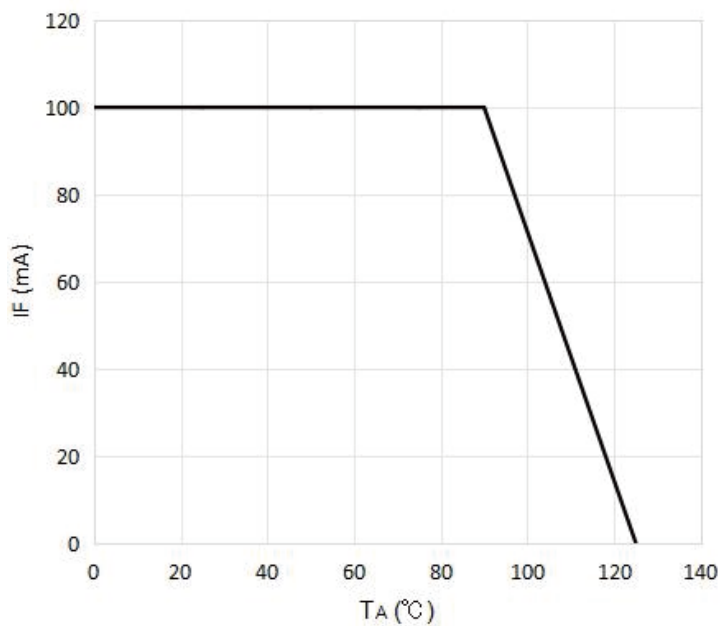
VF - IF Curve Tracer



VR - IR Curve Tracer



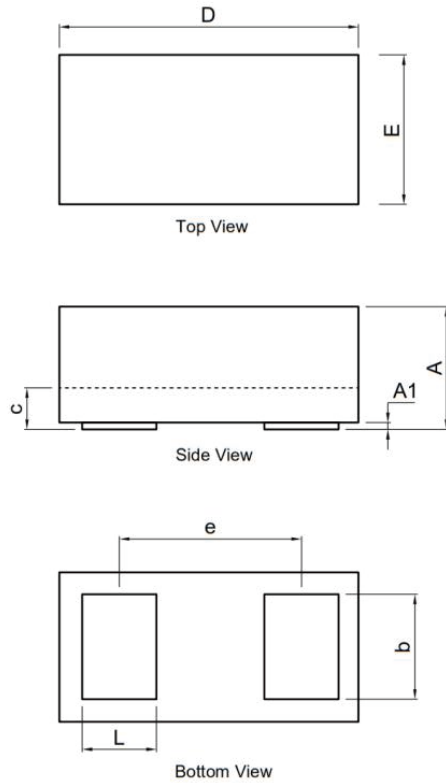
CJ - VR Curve Tracer



Forward current derating curve

Package Outline Dimensions

DFN0603-2L



SYMBOL	Dimensions In Millimet	
	MIN	MAX
A	0.23	0.33
A1	0	0.05
b	0.21	0.28
c	0.05	0.18
D	0.55	0.65
E	0.25	0.35
L	0.15	0.23