

General description

General Application Schottky barrier rectifier, encapsulated in a DFN1006-2L leadless ultra small Surface-Mounted Device (SMD) plastic package.

Features and benefits

- Average forward current: $I_F(AV) \leq 200 \text{ mA}$
- Reverse voltage: $V_R \leq 30 \text{ V}$
- Low forward voltage: $V_F \leq 500 \text{ mV @}200\text{mA}$
- Leadless ultra small SMD plastic package



DFN1006-2L

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)
RB521BS-30	DFN1006-2L	7 Inch	10000

Ordering information

Marking	Naming rule	Graphic symbol
F	RB521BS-30 产品名称 product name	

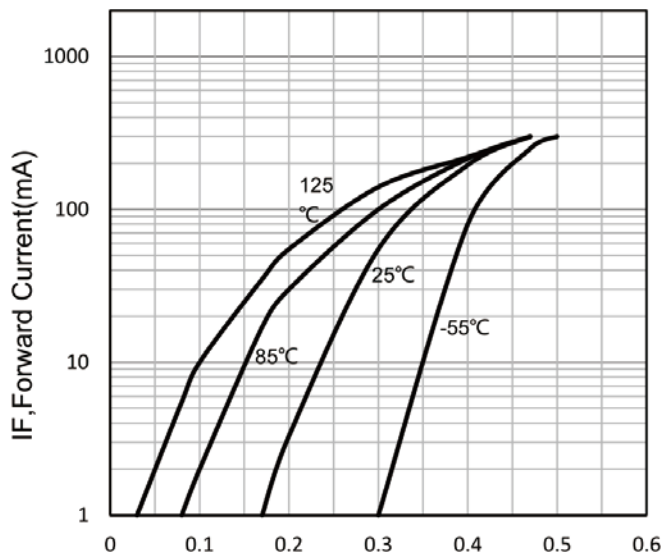
Maximum Ratings (T_A = 25 °C, unless otherwise specified)

Parameter	Symbol	Value	Unit
DC reverse voltage	V _R	30	V
Average rectified forward current	I _{F(AV)}	200	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

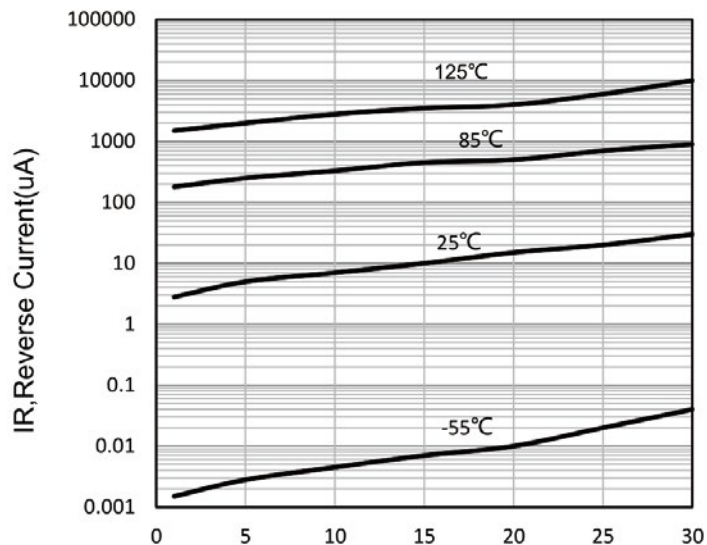
Electrical Characteristics (T_A = 25 °C, unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Forward voltage	V _F	--	--	0.50	V	(I _F =200mA)
		--	--	0.40	V	(I _F =100mA)
		--	--	0.38	V	(I _F =20mA)
		--	--	0.35	V	(I _F =10mA)
Reverse current	I _R	--	--	30	uA	V _R =10V

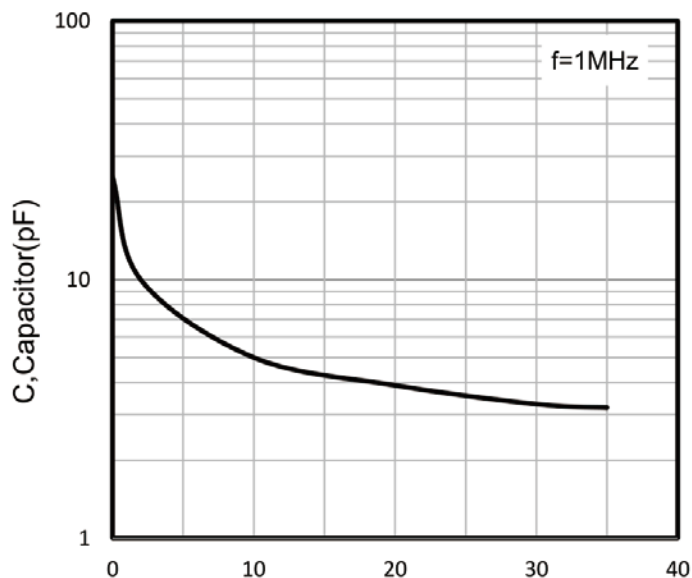
Typical Characteristics



V_F , Forward Voltage(V)
Forward Characteristics



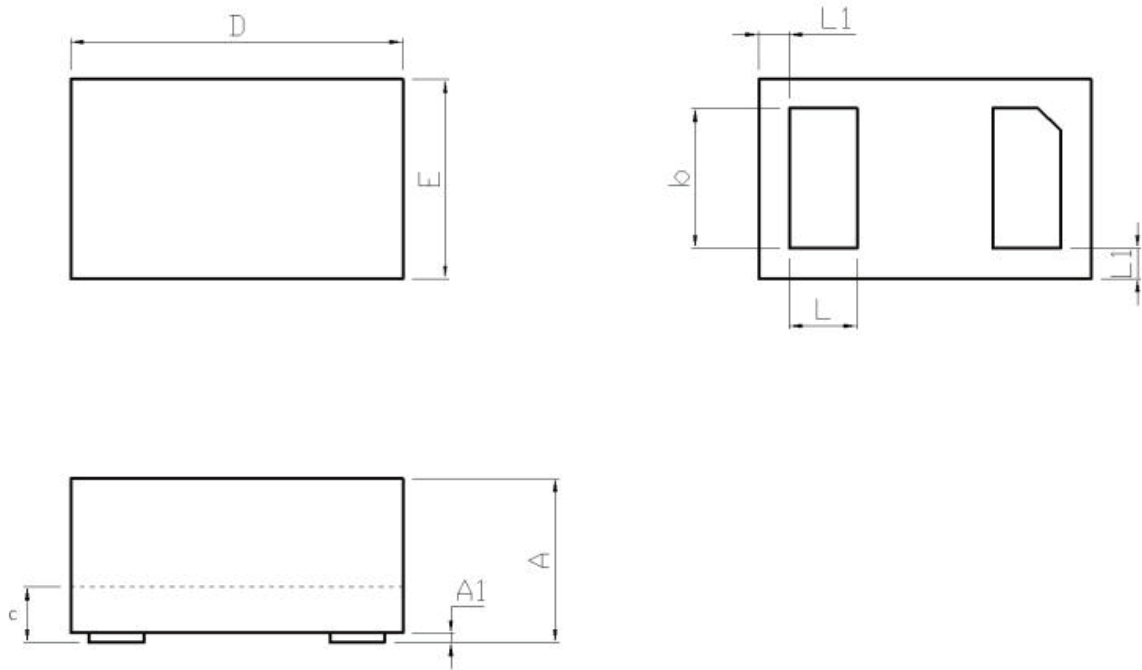
V_R , Reverse Voltage(V)
Reverse Characteristics



V_R , Reverse Voltage(V)
Capacitor Characteristics



DFN1006-2L Package Outline Dimensions



DFN1006-2L (mm)			
DIM	MIN	TYP.	MAX
A	0.40	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.5	0.55
c	0.1	0.15	0.18
D	0.95	1.00	1.05
E	0.55	0.60	0.65
L	0.20	0.25	0.30