

DFN1006-2L Surface Mount Schottky Barrier Rectifier

Features

- $V_R=30V$
- $I_{F(AV)}=0.2A$
- High Current Capability
- Low Forward Voltage Drop
- Low IR

Applications

The device is a single rectifier offering low VF and excellent high temperature stability.

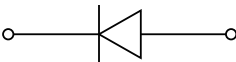
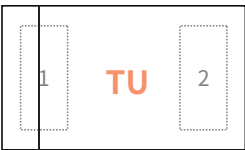
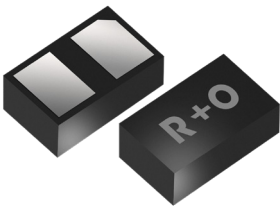
Mechanical Data

- Case: DFN1006-2L
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Cathode line denotes the cathode end

Function Diagram

Reverse Voltage
30 V
Forward Current
0.2 Ampere

DFN1006-2L



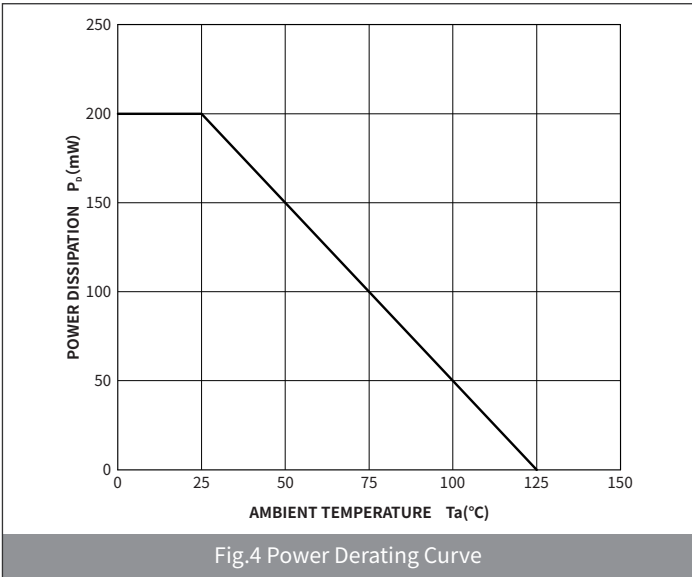
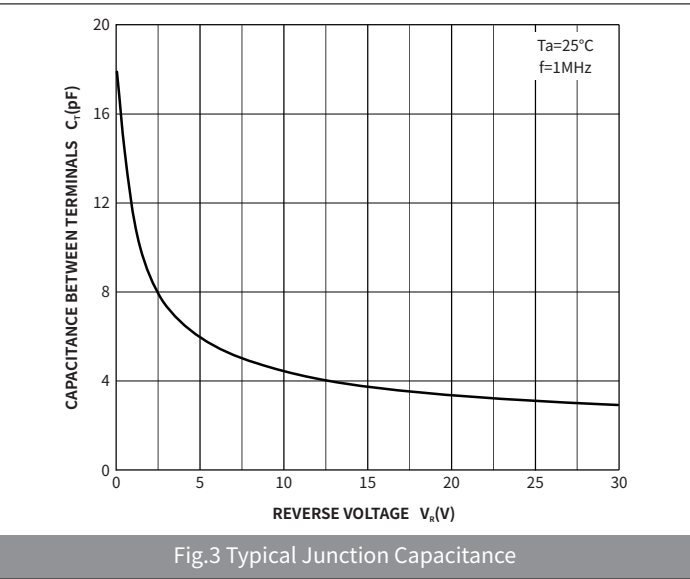
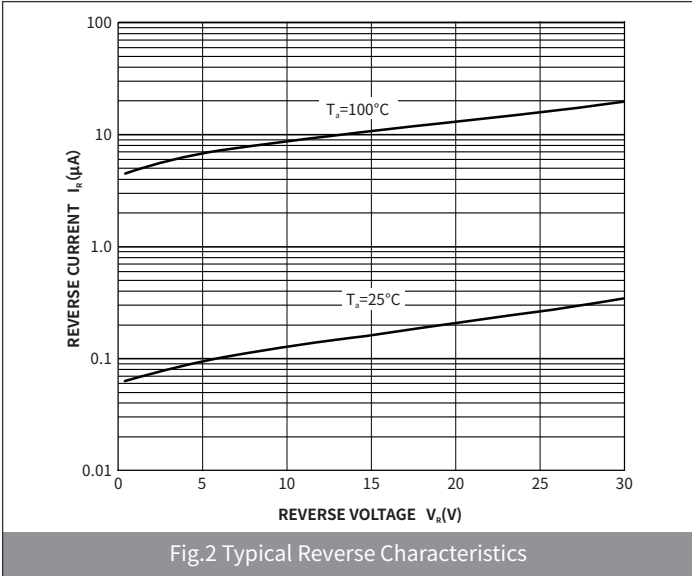
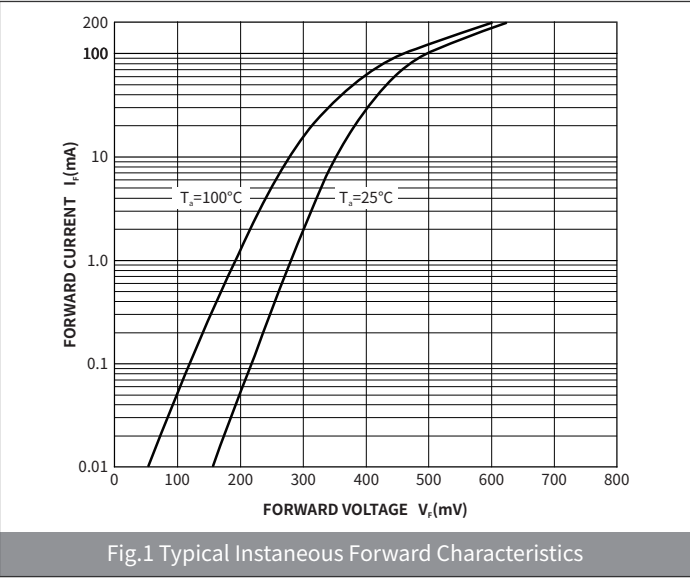
Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Reverse voltage	V_R	V	30
Maximum Average Forward Rectified Current	$I_{F(AV)}$	A	0.2
Non-repetitive Peak Forward Surge Current @t=8.3ms Half-sine wave	I_{FSM}	A	0.6
Power Dissipation	P_D	mW	200
Junction temperature	T_j	°C	125
Storage temperature range	T_{STG}	°C	-55~+150
Typical thermal resistance	$R_{\theta J-A}$	°C /W	500

● **Electrical Characteristics** (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	Min	Type	Max
Forward voltage	$I_F=0.1\text{mA}$	V_F	V	—	—	0.24
	$I_F=1\text{mA}$			—	—	0.32
	$I_F=10\text{mA}$			—	—	0.40
	$I_F=30\text{mA}$			—	—	0.50
	$I_F=100\text{mA}$			—	—	1.0
Maximum reverse current	$V_R=25\text{V}$	I_R	uA	—	—	2.0
Capacitance between terminals	$V_R=1\text{V}, f=1\text{MHz}$	C_T	pF	—	—	10
Reverse recovery time	$I_F=I_R=10\text{mA}, I_{R(\text{REC})}=1\text{mA}$	t_{rr}	nS	—	—	5.0

● **Ratings And Characteristics Curves** (Ta=25°C Unless otherwise specified)



● Ordering Information

PACKAGE	PACKAGE CODE	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
DFN1006-2L	R1	10000	50000	600000	7"

● Package Outline Dimensions (DFN1006-2L)

Symbol	Dimensions			
	Millimeters		Inches	
	Min	Max	Min	Max
A	0.950	1.050	0.037	0.041
B	0.550	0.650	0.022	0.026
C	0.350	0.450	0.014	0.018
D	0.550	0.650	0.022	0.026
D ₁	0.280	0.380	0.011	0.015
E	0.450	0.550	0.018	0.022
L	0.000	0.100	0.000	0.004

● Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min	Max	Min	Max
J	0.50	0.60	0.020	0.024
K	0.25	0.35	0.010	0.014
M	0.55	0.65	0.022	0.026