

Features

- Small Surface Mounting Type
- High Speed
- High Reliability with High Surge Current Handling Capability

Applications

- High Speed Switching for Detection For
- Portable Equipment:(i.e. Mobile Phone,MP3, MD,CD-ROM, DVD-ROM, Note Book PC, etc.)



DFN1006-2L top view



Schematic diagram



Pb-Free



Halogen-Free

Maximum Ratings and Electrical Characteristics, Single Diode @T_a=25°C

Symbol	Parameter	Value	Unit
V _{RM}	Peak Reverse Voltage	90	V
V _R	DC Reverse Voltage	80	V
I _{FM}	Forward Continuous Current	300	mA
I _O	Average Rectified Output Current	150	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2.0	A
P _D	Power Dissipation	100	mW
R _{θJA}	Thermal Resistance Junction to Ambient	1250	°C/W
T _J , T _{STG}	Operating and Storage Temperature Range	-55~ +150	°C

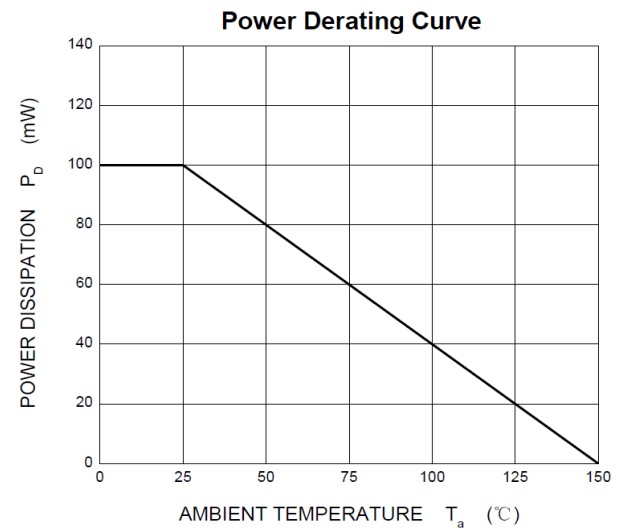
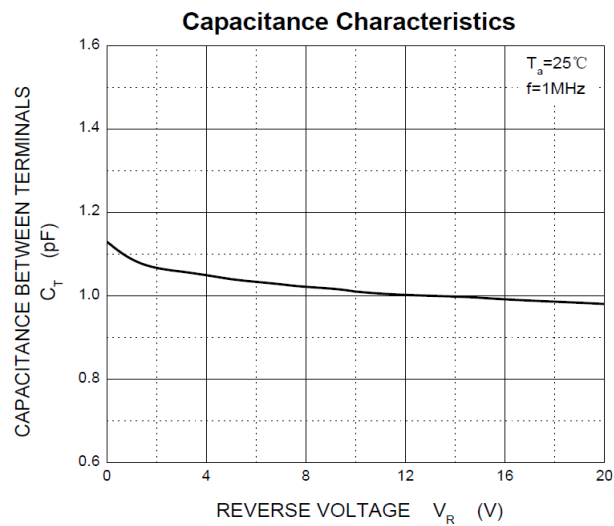
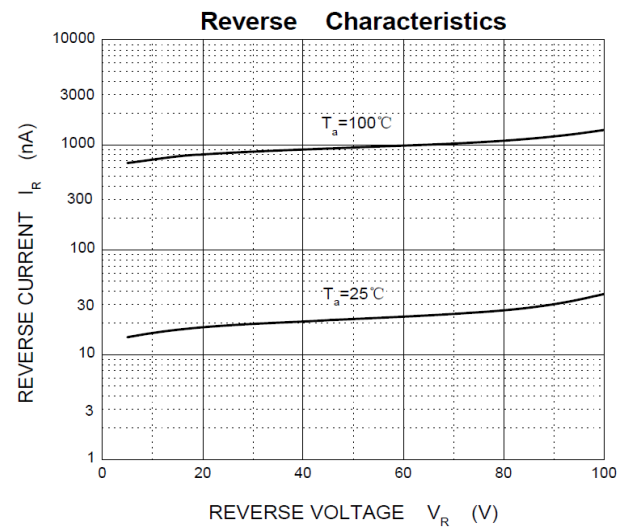
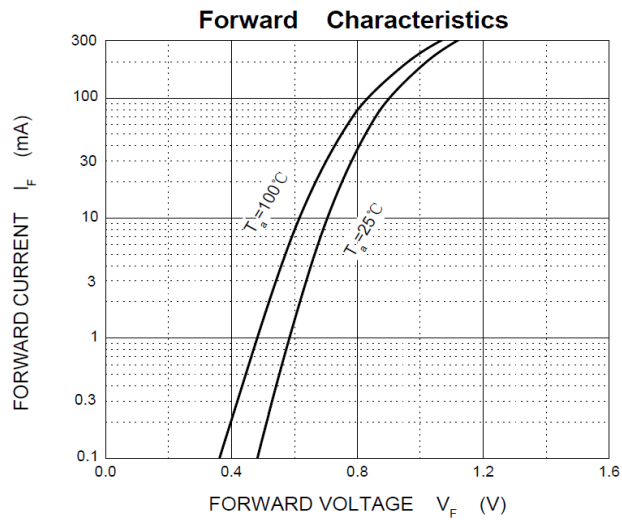
Electrical Ratings @T_a=25°C

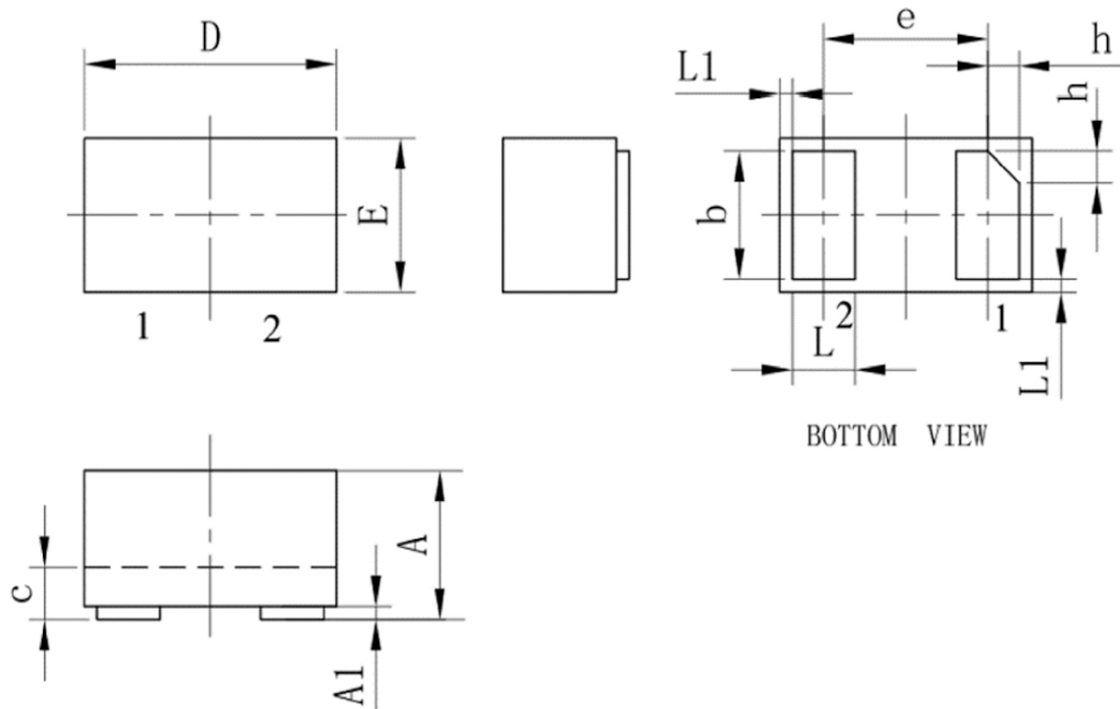
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _F	Forward voltage	I _F =100mA	--	--	1.2	V
I _R	Reverse current	V _R =80V	--	--	0.1	μA
C _T	Capacitance between terminals	V _R =0.5V, f=1MHz	--	--	3.0	pF
t _{rr}	Reverse recovery time	V _R =6V, I _F =10mA, R _L =100Ω	--	--	4	ns

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
DK400LED02	DFN1006-2L	7	10,000	150,000	600,000	7"reel

Typical Operating Characteristics



DFN1006-2L Package information


Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.450	0.550	0.018	0.022
A1	0.000	0.050	0.000	0.002
b	0.450	0.550	0.018	0.022
c	0.120	0.180	0.005	0.007
D	0.950	1.050	0.038	0.042
e	0.65BSC		0.026REF	
E	0.550	0.650	0.022	0.026
L	0.200	0.300	0.008	0.012
L1	0.05REF		0.005REF	
h	0.070	0.170	0.003	0.007