

Features

- Small surface mounting type
- low forward voltage
- High reliability

Application

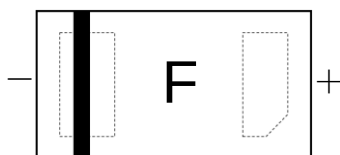
- High speed switch for detection
- For portable equipment:(Mobile phone, MP3, MD, CD-ROM, DVD-ROM, Note book PC, etc.)



DFN1006-2L view



Schematic diagram



Marking and pin assignment



Halogen-Free

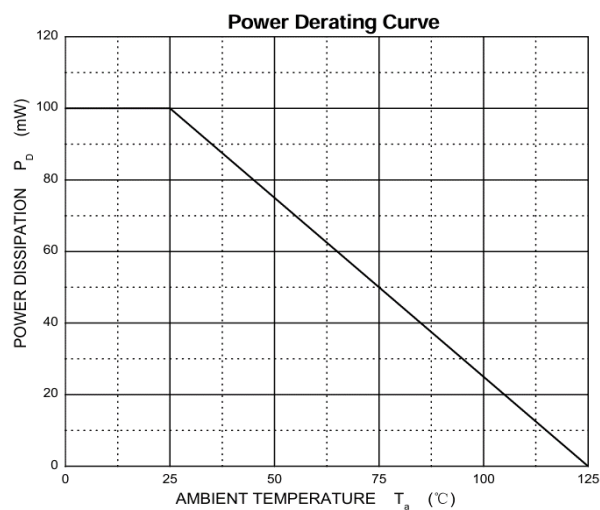
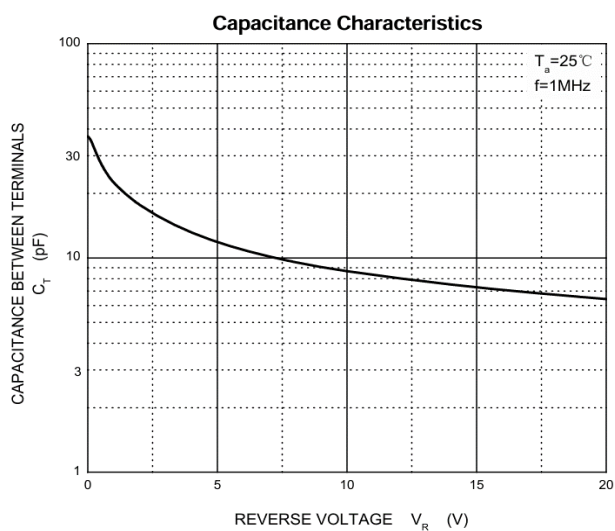
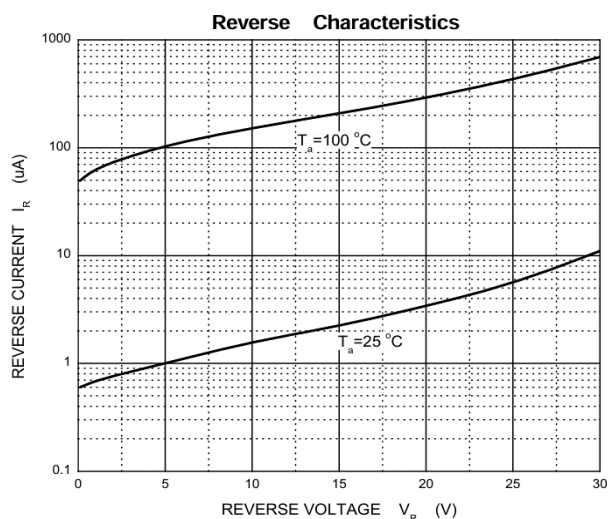
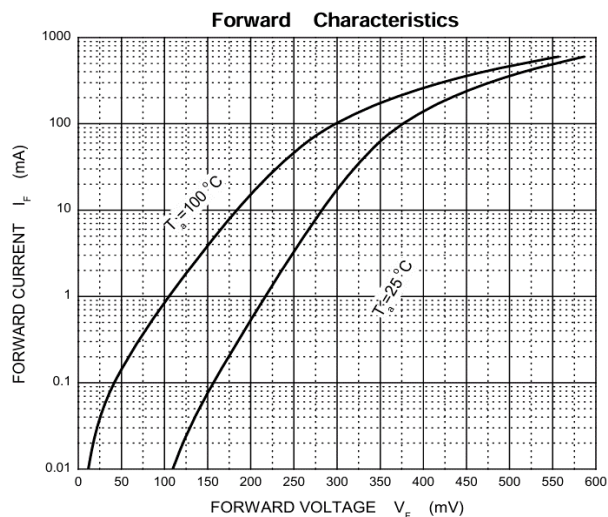
Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	Reverse voltage (DC)	30	V
I_O	Average rectified forward current	200	mA
I_{FSM}	Forward current surge peak (60Hz · 1cyc)	1000	mA
P_D	Maximum Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	1000	$^{\circ}\text{C}/\text{W}$
T_J	Junction temperature	-40~+125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics ($T_J=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=100\mu\text{A}$	30	--	--	V
I_R	Reverse current	$V_R=10\text{V}$	--	--	20	μA
V_F	Forward voltage	$I_F=10\text{mA}$	--	--	0.35	V
		$I_F=200\text{mA}$	--	--	0.5	V

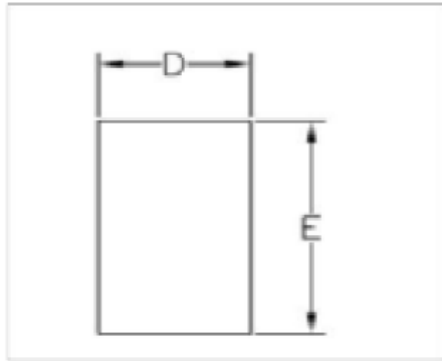
Typical Operating Characteristics



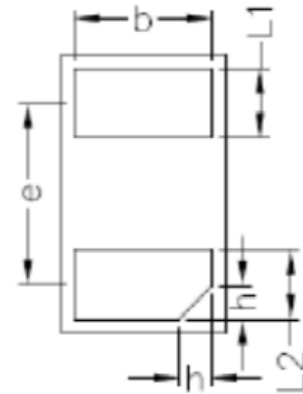
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
DS521-30A1	DFN1006-2L	F	10,000	150,000	600,000	7"reel

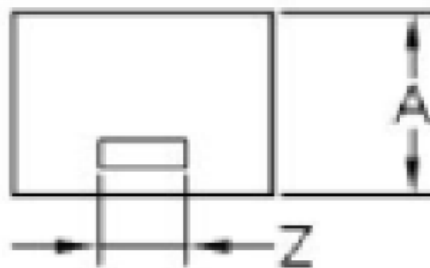
DFN1006-2L Package information



TOP VIEW



BOTTOM VIEW



SIDE VIEW

Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
D	0.550	0.650	0.022	0.026
E	0.950	1.050	0.037	0.041
L1	0.200	0.300	0.008	0.012
L2	0.200	0.300	0.008	0.012
A	0.450	0.550	0.018	0.022
Z	0.150	0.250	0.006	0.010
b	0.450	0.550	0.018	0.022
e	0.64REF		0.025REF	
h	0.070	0.170	0.003	0.007