

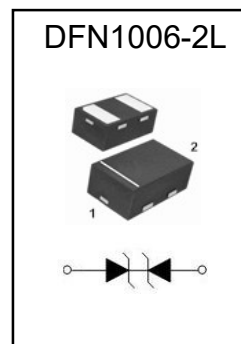


Transient Voltage Suppressors

for ESD Protection

Features

- Low reverse current
- Bi-direction high reliability
- Low capacitance



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Pulse Current ($t_p = 8/20 \text{ us}$)	I_{PP}	4.5	A
ESD discharge (IEC61000-4-2)	Air Contact E_{SD}	± 25 ± 15	KV
Peak Pulse Power ($t_p = 8/20 \text{ us}$)	P_{PP}	90	W
Operation Temperature Range	T_j	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

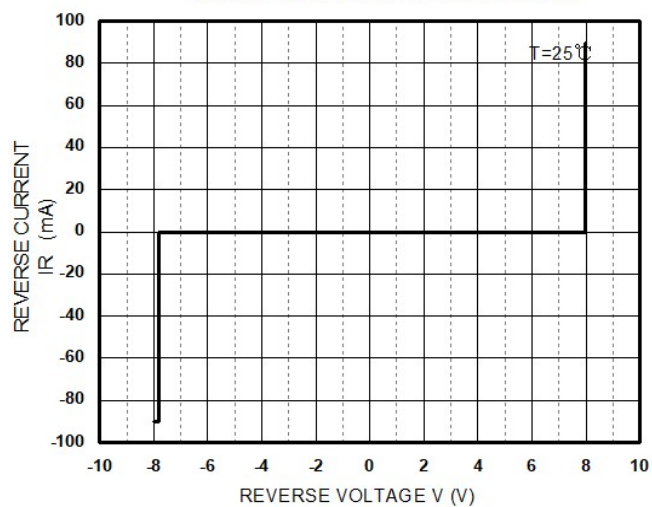
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Working Voltage	V_{RWM}			5	V
Reverse Breakdown Voltage $I_{BR} = 1 \text{ mA}$	$V_{(BR)R}$	6		8	V
Reverse Current at $V_R = 5.0\text{V}$	I_R			1	μA
Clamping Voltage $I_{PP} = 4.5 \text{ A} (t_p = 8/20 \text{ us})$	V_C		18	21	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j		0.25	0.35	pF

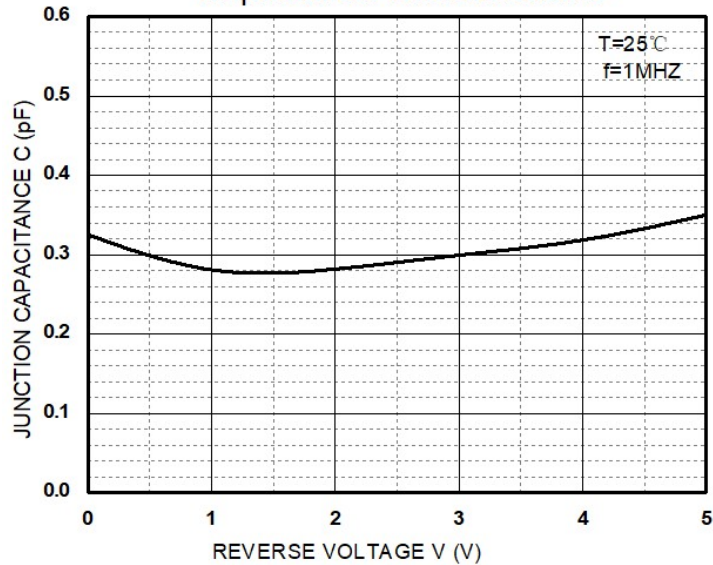


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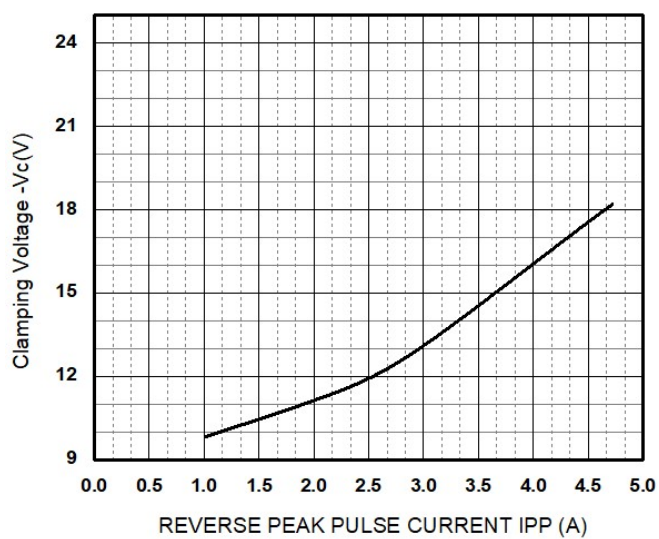
Reverse Characteristics



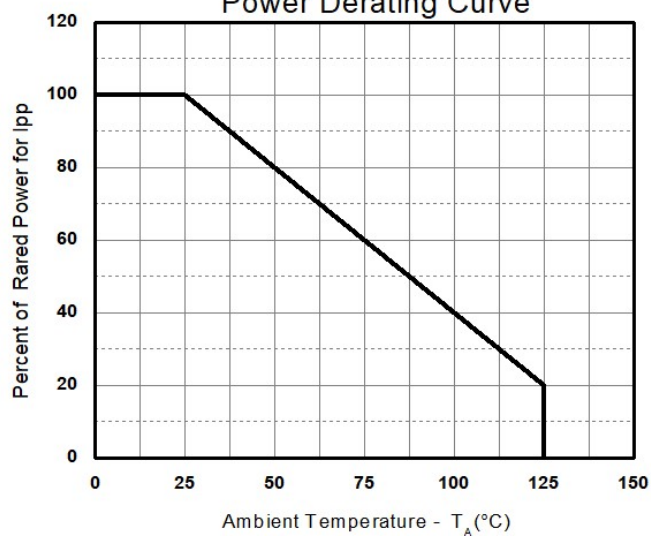
Capacitance Characteristics



VC-IPP

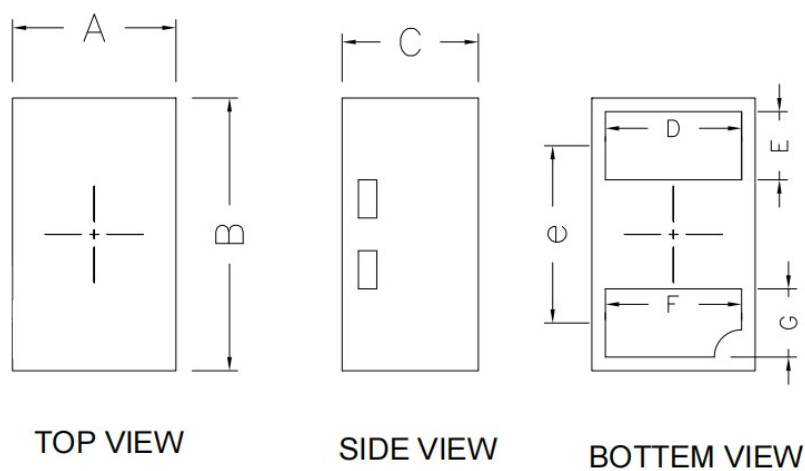


Power Derating Curve



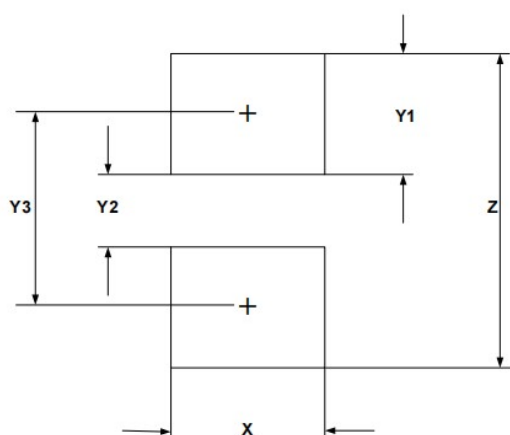


DFN1006-2 Package Outline Drawing



COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	0.550	0.600	0.650
B	0.950	1.000	1.050
C	0.450	0.500	0.550
D	0.450	0.500	0.550
E	0.200	0.250	0.300
F	0.450	0.500	0.550
G	0.200	0.250	0.300
L	0.200	0.250	0.300
e	0.650 TYPE		

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X	0.60	0.024
Y1	0.50	0.020
Y2	0.30	0.012
Y3	0.80	0.032
Z	1.30	0.052