

ESDU24HP

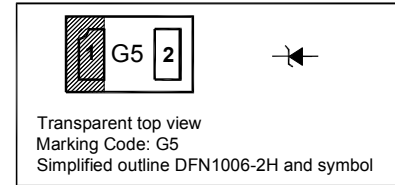
ESD Protection Diodes

Features

- ESD Protection of one line
- Low clamping voltage

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Value	Unit
Peak Pulse Current ($t_p = 8/20 \mu\text{s}$)	I_{PP}	3	A
IEC61000-4-2 (ESD) Contact	V_{PP}	± 23	KV
Peak Pulse Power ($t_p = 8/20 \mu\text{s}$)	P_{PK}	150	W
Junction Temperature Range	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

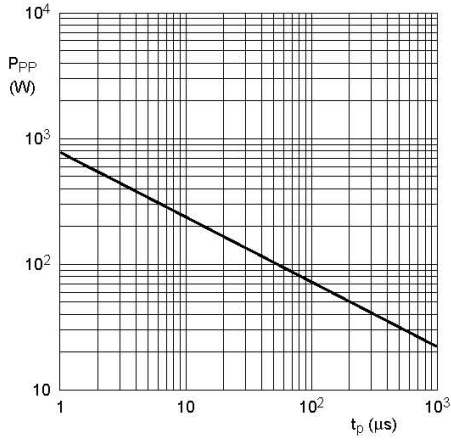
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-		24	V
Reverse Breakdown Voltage at $I_R = 5 \text{ mA}$	$V_{(BR)R}$	26.5	-	27.5	V
Reverse Current at $V_{RWM} = 24 \text{ V}$	I_R	-	-	50	nA
Clamping Voltage at $I_{PP} = 1 \text{ A}$, $t_p = 8/20 \mu\text{s}$ at $I_{PP} = 3 \text{ A}$, $t_p = 8/20 \mu\text{s}$	V_C	-	-	36 70	V
Junction Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	-	50	pF

TOP DYNAMIC



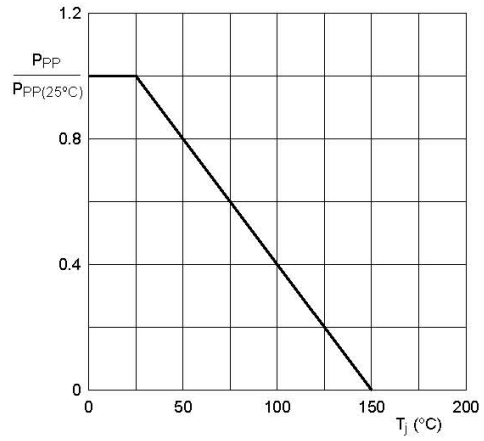
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$T_{amb} = 25\text{ }^\circ\text{C}$

Peak pulse power as a function of exponential pulse duration; typical values



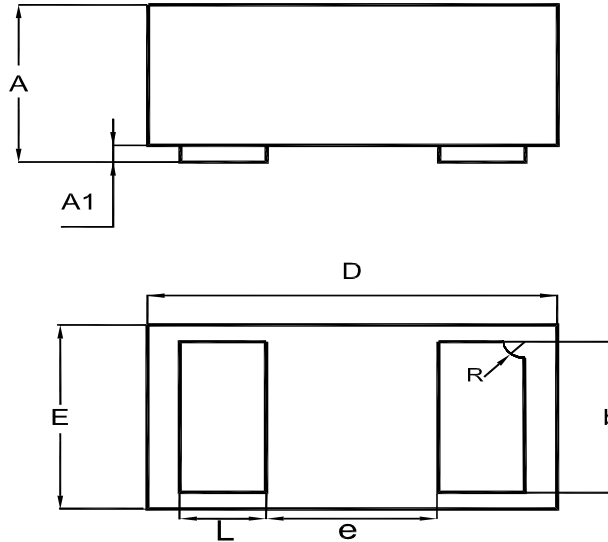
Relative variation of peak pulse power as a function of junction temperature; typical values

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PACKAGE OUTLINE

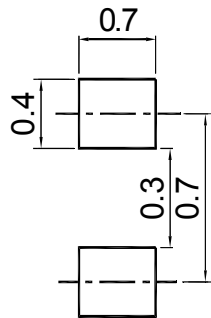
Plastic surface mounted package

DFN1006-2H



UNIT	A	A1	b	D	E	e	L	R
mm	0.51 0.46	0.05 0	0.55 0.45	1.05 0.95	0.65 0.55	0.4	0.3 0.2	0.15 0.05

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN1006-2H	8	4 ± 0.1	0.157 ± 0.004	178	7	5,000

TOP DYNAMIC



ISO14001 : 2004 Certificate No. 121505007
ISO 9001 : 2008 Certificate No. 63114012
OHSAS 18001 : 2007 Certificate No. 05191506008
IECQ QC 080000 Certificate No. E2418000744022

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