

Protection in Portable Electronics Applications.

FEATURES

- 30 Watts peak pulse power ($t_p=8/20\mu s$)s
- Transient protection for data lines to IEC 61000-4-2(ESD) 20KV (air/contact)
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications.
- Protects one I/O or power line.
- Low clamping voltage.
- Low leakage current.

APPLICATIONS

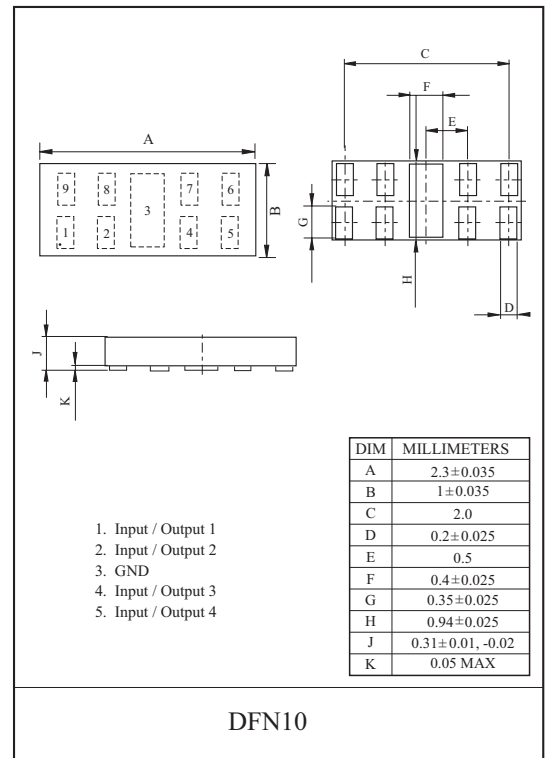
- USB 2.0, 10/100/1000 Ethernet, FireWire, DVI, HDMI, S-ATA
- Mobile Communication
- Consumer Products (STB, MP3, DVD, DSC...)
- LCD-Display, Camera
- Notebooks and desktop computers, peripherals

MAXIMUM RATING (Ta=25)

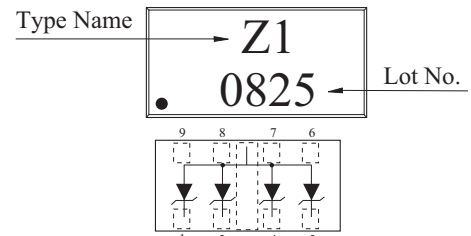
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	3	A
Operating Temperature Range	T_{OP}	-40~125	°C
Storage Temperature	T_{stg}	-55 ~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	5.3	V
Reverse Breakdown Voltage	V_{BR}	$I_f=1mA$ (I/O to GND)	6	-	-	V
Reverse Leakage Current	I_R	$V_{RWM}=5.3V$ (I/O to GND)	-	-	50	nA
Clamping Voltage	V_C	$I_{PP}=1A, t_p=8/20\mu s, (I/O \text{ to GND})$	-	10	13	V
		$I_{PP}=3A, t_p=8/20\mu s, (I/O \text{ to GND})$	-	12	15	
Junction Capacitance	C_j	$V_R=0V, f=1MHz$ (I/O to GND)	-	0.4	0.6	pF

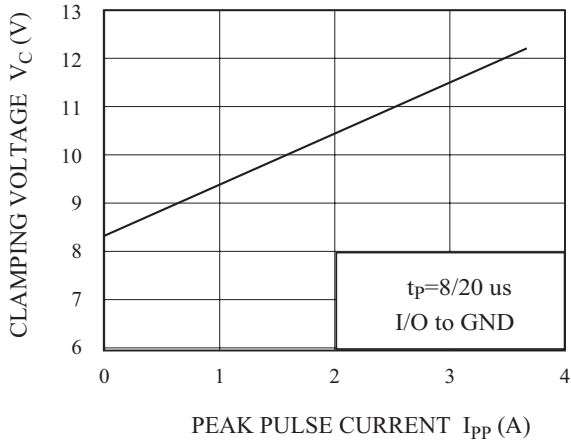


Marking

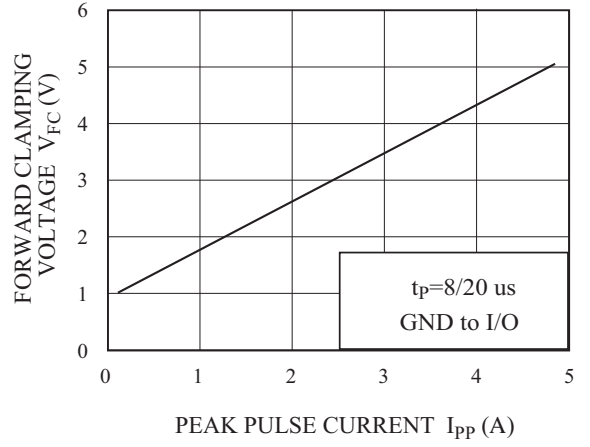


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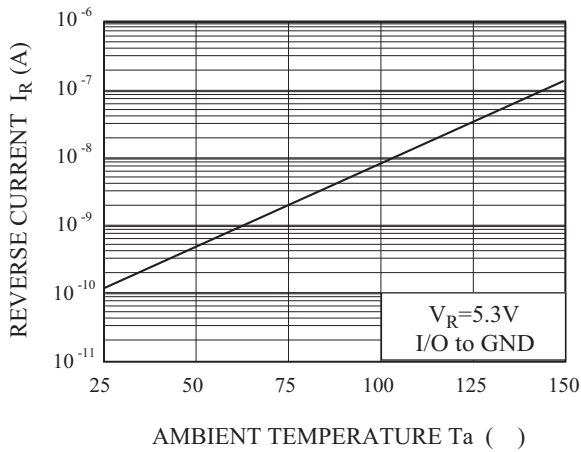
CLAMPING VOLTAGE



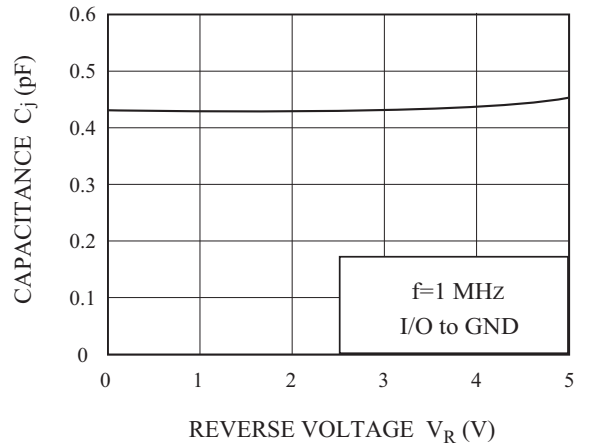
FORWARD CLAMPING VOLTAGE



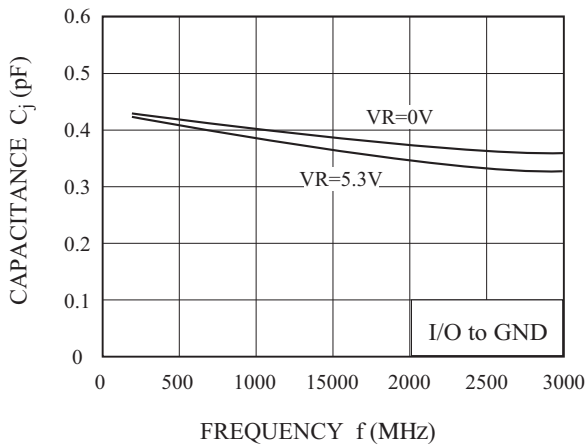
REVERSE CURRENT



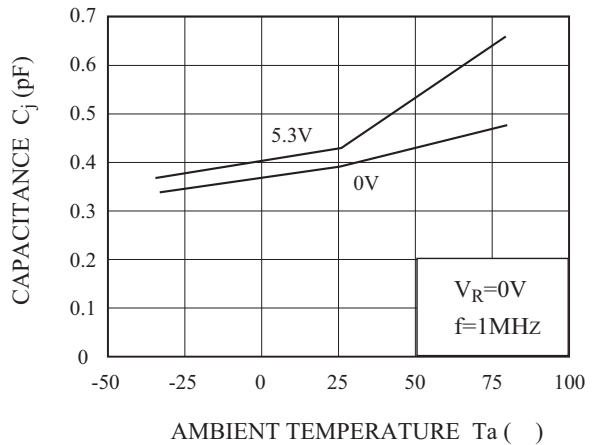
CAPACITANCE



LINE CAPACITANCE



LINE CAPACITANCE



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