

LOW CAPACITANCE DIODE ARRAY

The PJUSB208DW has a low capacitance of 0.9pF and operates with virtually no insertion loss to 1GHz. This makes the device ideal for usage of high-speed data lines such as USB2.0, Firewire, DVI, and gigabit Ethernet interfaces. The low capacitance array configuration enable users to apply to four high-speed data or transmission lines.

FEATURES

- Maximum Capacitance of 1.0pF at 0Vdc 1MHz Line-to-Ground
- Low leakage current, maximum of $0.1 \mu A$ at rated voltage
- Protect four I/O lines
- Flammability rating UL94V-0
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Polarity: See Diagram Below
- Approx.Weight: 0.0002 ounces, 0.006 grams
- Marking : 8DW

APPLICATIONS

- · USB 2.0 and Firewire Port Protection
- LAN / WLAN Access Point terminals
- Video Signal Line Protection

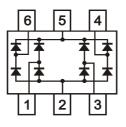
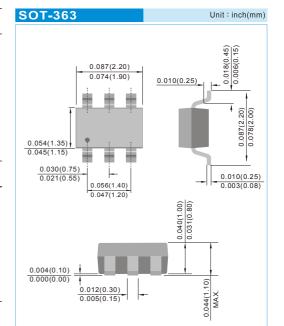


Fig.71(TOP VIEW)

MAXIMUM RATINGS (TA=25°C unlesss otherwise noted)

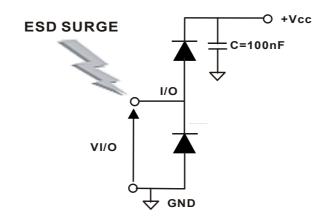
RATING	SYMBOL	VALUE	UNITS
Rectifier Repetitive Peak Reverse Voltage	Vrrm	70	V
ESD per IEC61000-4-2 (Air) (Note.1) ESD per IEC61000-4-2 (Contact) (Note.1)	Vesd	<u>+</u> 15 <u>+</u> 8	kV
Surge Non Repetitive Forward Current-Rectangular waveform tp=1ms tp=100ms	I fsm	2 0.5	A
Operating Junction Temperature and Storage Temperature Range	Tj,Tstg	-55 to + 150	°C





ELECTRICAL CHARACTERISTICS (TJ=25°C)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Reverse Stand-Off Voltage	VRRM		-	-	70	v
Reverse Breakdown Voltage	Vbr	I BR = 50uA	85	-	-	V
Reverse Leakage Current	l r	VRWM = 70V	-	0.04	0.1	uA
Off State Junction Capacitance	CJ	0Vdc,f=1MHz between I/O lines and GND	-	-	1	pF
Off State Junction Capacitance	Сл	0Vdc,f=1MHz between I/O lines	-	-	0.9	pF



Note.1 ESD behavior: Measurements conditions (with coupling capacitance)



RATING AND CHARACTERISTIC CURVES

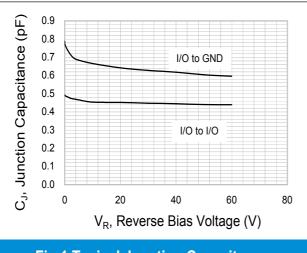
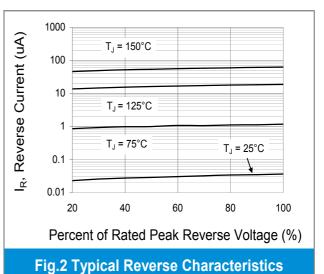


Fig.1 Typical Junction Capacitance



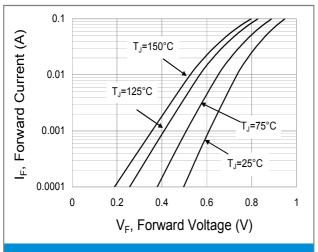
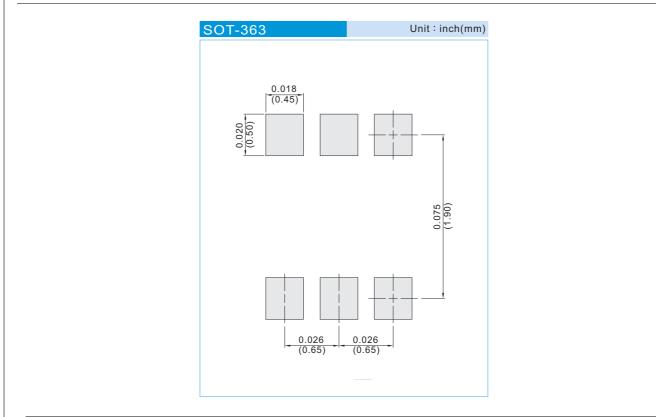


Fig.3 Typical Forward Characteristics



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 10K per 13" plastic Reel
 - T/R 3K per 7" plastic Reel





Part No_packing code_Version

PJUSB208DW_R1_00001 PJUSB208DW_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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