



FEATURES

- SOT23-6L package allows five separate unidirectional configurations
- Low leakage < 1μA@5V
- Breakdown voltage: 6.37V-7.04V@1mA
- Low Capacitance (8.5pF typical)
- ESD Protection Meeting IEC1000-4-2
- · Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

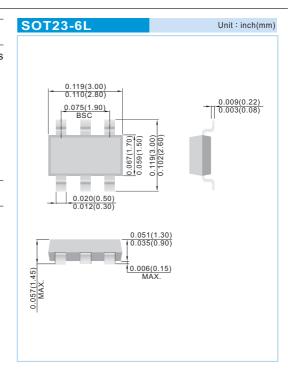
MECHANICAL DATA

Case: SOT23-6L, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.014 grams

Marking: BTW

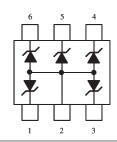


MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Power Dissipation @20μs@T _A ≤25 °C (Note 1)	Ртот	150	W
Steady State Power-1 Diode (Note 2)	Po	385	mW
Thermal Resistance , Junction to Ambient Above 25°C, Derate	RθJA	212 4.7	°C/W mW/°C
ESD Discharge MIL STD 883C-Method 3015-6 IEC1000-4-2, Air Discharge IEC1000-4-2, Contact Discharge	VPP	16 15 8	kV
Lead Solder Temperature (10 s duration)	T∟	260	°C
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 to 150	°C

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneuosly. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

- 1. Non-repetitive current per Figure 1. Derate per Figure 2.
- 2.Only 1 diode under power.For all 5 diodes under power,PD will be 20%.Mounted on FR-4 board with min pad.

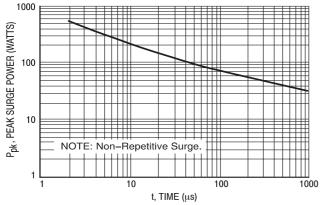






ELECTRICAL CHARACTERISTICS

Dord Mussels on	Breakdown Voltage Vвя @ 1mA(Volts)			Leakage Current	Capacitance@0V Bias	Max Vr@lr=10mA	
Part Number	Min.	Nom	Max.	IN @ VNVIII = 5V	Dias		
	٧	٧	٧	μΑ	pF	٧	
PJUSB05-4	6.37	6.7	7.04	1.0	8.5	0.95	



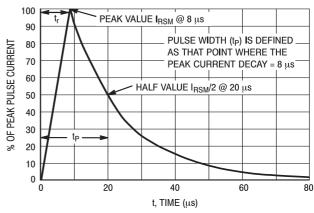
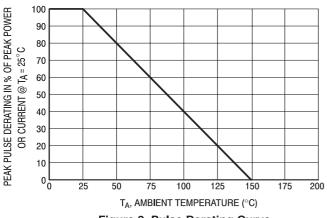


Figure 1. Pulse Width

Figure 2. 8 x 20 μs Pulse Waveform



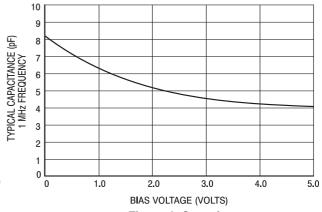
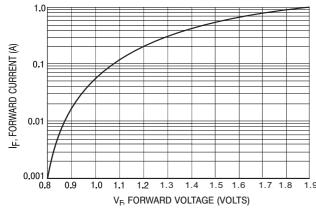


Figure 3. Pulse Derating Curve

Figure 4. Capacitance



20 (WW) 10 (WW) 10 (WW) 2.5 µS SQUARE WAVE 1.0 (Fig. 1) (WW) 2.5 µS SQUARE WAVE 1.0 (

Figure 5. Forward Voltage

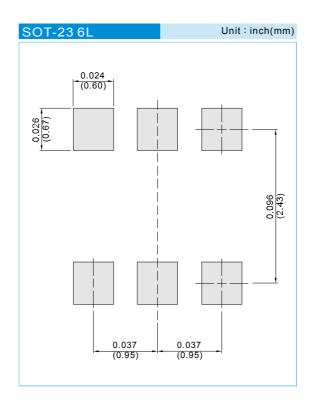
Figure 6. Clamping Voltage versus Peak Pulse Current (Reverse Direction)

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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

PJUSB05-4_R1_00001 PJUSB05-4_R2_00001

For example:



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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