

PJ4L40W6

QUAD SCHOTTKY DATA LINE BUS TERMINATOR

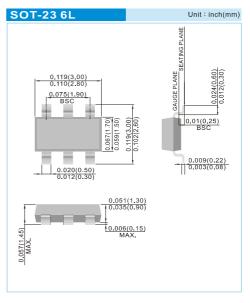
This highly integrated device is designed as rail to rail overvoltage protection clamp for up to four high frequency data lines. It is ideal in portable applications where small form factors are required.

FEATURES

- Low Forward Voltage Drop for Improved Voltage Protection
- Very Fast Switching
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-23 6L, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See circuit schematic below
- Approx. Weight: 0.0005 ounces, 0.014 grams
- Marking : 441



MAXIMUM RATINGS (TA=25°C, unless otherwise noted)

Rating	Symbol	Value	Units
Reverse Voltage	VR	30	V
Continuous Forward Current	ΙF	200	mA
Non-Repetitive Surge Current,t=1s	IFSM	600	mA
Power Dissipation (Note 1)	PD	200	mW
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 to +125	°C

Note 1 : Device mounted on FR-4 board 1.0 inch x 0.85 inch x 0.062 inch, with minimum pad layout.

THERMAL CHARACTERISTICS

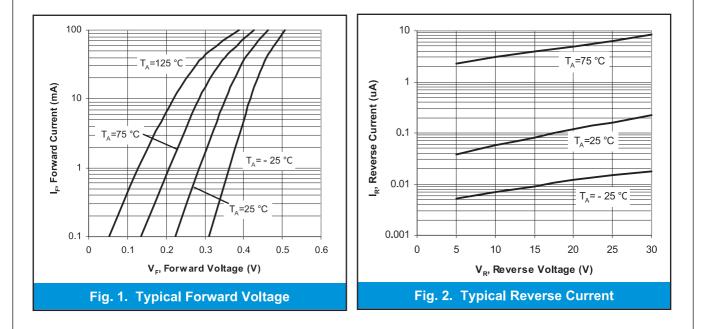
Characteristic	Symbol	Value	Units
hermal Resistance,Junction to Ambient	Røja	625	°C/W
			6 5 4
			1 2 3



ELECTRICAL CHARACTERISTICS (Each Diode) TJ=25°C, unless otherwise noted

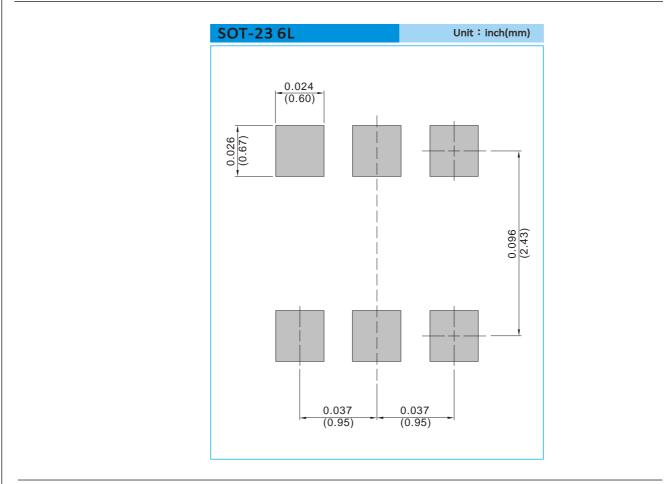
Characteristic		Symbol	Min	Тур	Max	Units
Reverse Breakdown Voltage (Note 2)	I R=100µA	Vbr	30	-	-	V
Forward Voltage (Note 2)	F=0.1mA F=1.0mA F=10mA F=30mA F=100mA	VF		0.225 0.280 0.350 0.390 0.460	0.280 0.350 0.450 0.550 1.0	V
Reverse Leakage Current (Note 2)	VR=25V	l r	-	-	2.0	μA
Total Capacitance VR=0V,f=1.0MHz	Data Line to Ground Between Data Lines	Ст	-	19 12	-	pF
Reverse Recovery Time	I F=I R=10mA I RR=1.0mA,RL=1000hm	Trr	-	-	5.0	ns

ELECTRICAL CHARACTERISTIC CURVES (Each Diode)





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

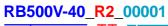




Part No_packing code_Version

PJ4L40W6_R1_00001 PJ4L40W6_R2_00001 PJ4L40W6_S1_00001 PJ4L40W6_S2_00001

For example :





Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

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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