



#### **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 applicaions 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: SOT23-6L, Molded Plastic

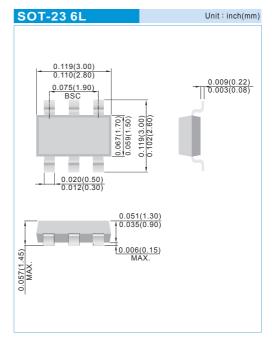
· Terminals: Solderable per MIL-STD-750, Method 2026

· Polarity: See circuit schematic below

· Approx. Weight: 0.0005 ounces, 0.014 grams

· Mounting Position: Any

Marking: 441



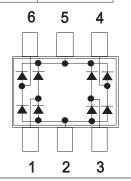
### MAXIMUM RATINGS (TA=25°C, unless otherwise noted)

Rating	Symbol	Value	Units
Reverse Voltage	VR	30	V
Continuous Forward Current	l F	200	mA
Non-Repetitive Surge Current,t=1s	I FSM	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	
	Thermal Resistance, Junction to Ambient	Rөja	625	°C/W	





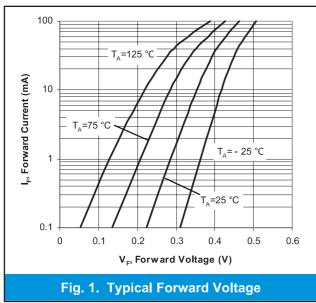


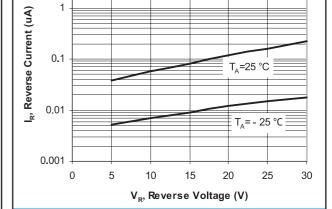
### ELECTRICAL CHARACTERISTICS (Each Diode) TJ=25°C, unless otherwise noted

Characteristic		Symbol	Min	Тур	Max	Units
Reverse Breakdown Voltage (Note 2)	I R=100μA	VBR	30	-	-	V
Forward Voltage (Note 2)	I F=0.1mA I F=1.0mA I F=10mA I F=30mA I F=100mA	VF	- - - -	0.225 0.280 0.350 0.390 0.460	0.280 0.350 0.450 0.550 1.0	٧
Reverse Leakage Current (Note 2)	V <sub>R</sub> =25V	l R	-	-	2.0	μА
Total Capacitance V <sub>R</sub> =0V,f=1.0MHz	Data Line to Ground Between Data Lines	Ст		19 12	-	pF
Reverse Recovery Time	F=  R=10mA   RR=1.0mA,RL=1000hm	Trr	-	-	5.0	ns

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### **ELECTRICAL CHARACTERISTIC CURVES (Each Diode)**





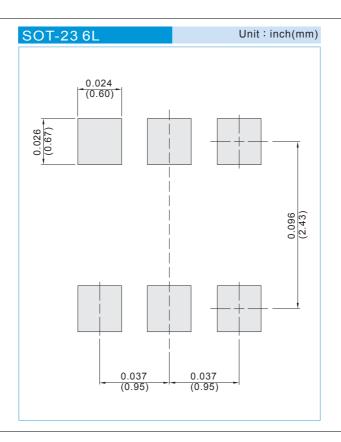
T<sub>A</sub>=75 °C

. 1. Typical Forward Voltage Fig. 2. Typical Reverse Current





### **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

## For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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