

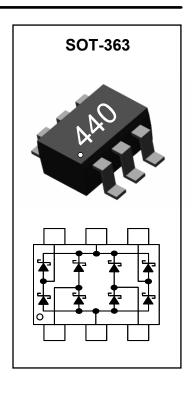


QUAD SCHOTTKY DATA LINE BUS TERMINATOR

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
- Ultra Small SOT-363 Package Utilizing Minimal Board Space
- Lead Free Plating, 100% Matte Tin Finish, RoHS Compliant



APPLICATIONS

- PDAs
- Portable Computers



MAXIMUM RATINGS $T_A = 25$ °C, unless otherwise noted

Rating	Symbol	Value	Units
Marking Code		440	
Reverse Voltage	VR	30	V
Continuous Forward Current	lF	200	mA
Non-Repetitive Surge Current, t=1s	IFSM	600	mA
Power Dissipation (Note 1)	PD	200	mW
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STG}	-65 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	R _{thja}	625	°C/W





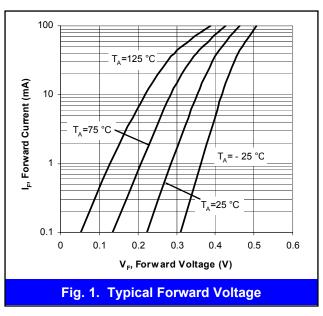
ELECTRICAL CHARACTERISTICS (Each Diode)

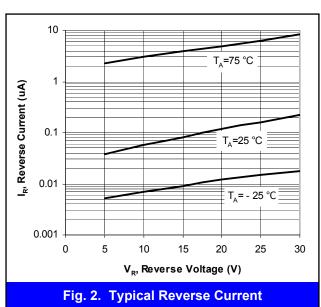
 $T_J = 25$ °C, unless otherwise noted

Characteristic		Symbol	Min	Тур	Max	Units	
Reverse Breakdown Voltage	e (Note 2)	IR = 100uA	V_{BR}	30	-	-	V
		IF = 0.1mA		-	0.225	0.280	
Forward Voltage (Note 2)		IF = 1.0mA	V _F	-	0.280	0.350	V
		IF = 10mA		-	0.350	0.450	
		IF = 30mA		-	0.390	0.550	
		IF = 100mA		-	0.460	1.0	
Reverse Leakage Current (Note 2) VR = 25V		ΙR	-	-	2.0	uA	
Total Capacitance VR = 0V, f = 1.0 MHz	Dat	a Line to Ground		-	19	-	pF
	Bet	ween Data Lines	СТ	-	12	-	
Reverse Recovery Time IF = IR = 10mA Irr = 1.0mA, RL = 100 Ohm		t m	-	-	5.0	ns	

Note 2: Short duration test pulse to minimize self heating

ELECTRICAL CHARACTERISTIC CURVES (Each Diode)

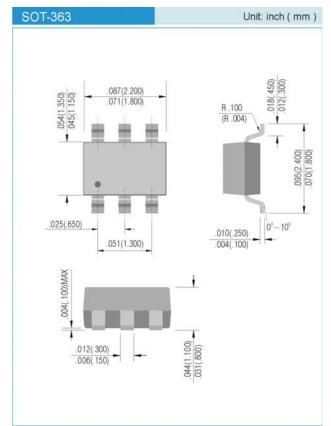


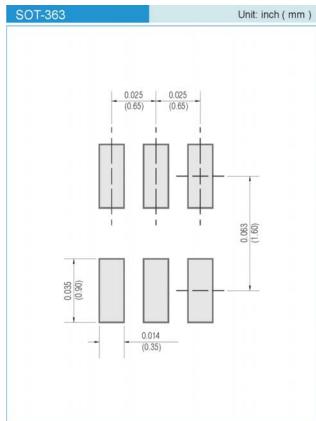






PACKAGE LAYOUT AND SUGGESTED PAD DIMENSIONS





ORDERING INFORMATION

PJ4L40 T/R7 - 7 inch reel, 3K units per reel

PJ4L40 T/R13 - 13 inch reel, 10K units per reel

Copyright PanJit International, Inc 2005

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.