5 V

SEMI CONDUCTOR

Ultra Low Capacitance ESD Protection

V_{RWM}

Features

ΡΛΝ

- IEC61000-4-2(ESD): ±18kV Air, ±12kV Contact Compliance
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 4A(8/20μS)
- Low leakage current, maximum 1µA at rated voltage
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

Mechanical Data

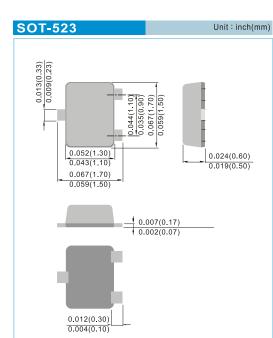
- Case: SOT-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00007 ounces, 0.002 grams

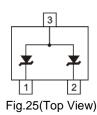
Applications

- USB3.0 Data Line Protection
- High Definition Multi-Media Interface Protection
- Monitors and Flat Panel Displays Notebook computers
- Video Line Protection & Base Stations
- 10/100/1000 Ethernet
- HDSL, IDSL Secondary IC Side Protection
- Control Signal Lines Protection

Maximum Ratings ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	V	±18	
ESD IEC61000-4-2(Contact)	V _{ESD}	±12	kV
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C







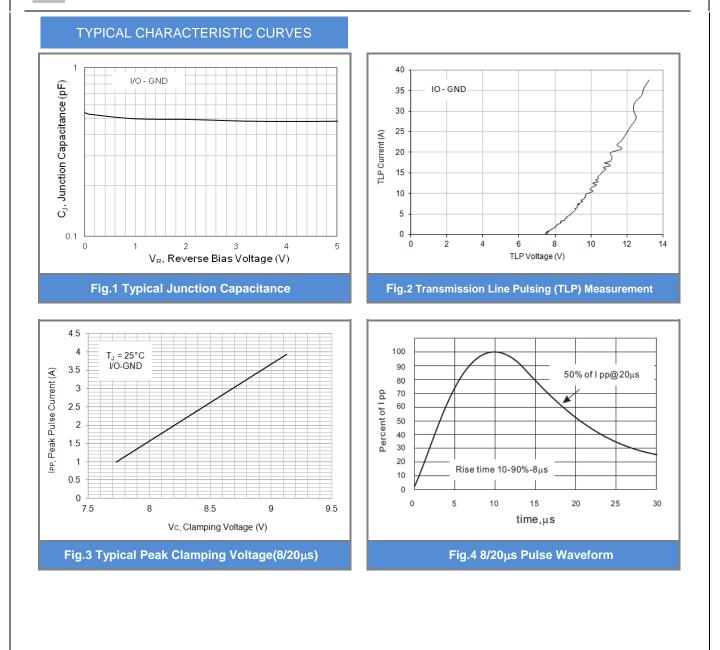
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Flectrical	Characteristics (T,	-25 C unles	e otherwise noted)
Licothoai		4-25 C unles	s otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA, Between any I/O pins to GND	5.8	-	10.2	V
Reverse leakage current	I _R	V _R =5V, any I/O pin to GND	-	-	1	μΑ
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs, any I/O pin to GND	-	9	12	V
		I _{PP} =4A, t _P =8/20μs, any I/O pin to GND	-	-	15	
Clamping Voltage TLP ^(Note 1)	V _{CL}	I _{PP} =4A, t _P =100ns, any I/O pin to GND	-	9.6	-	v
		I _{PP} =8A, t _P =100ns, any I/O pin to GND	-	10.6	-	
Dynamic Resistance ^(Note 1)	R_{DYN}	t _P =100ns	-	0.25	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz, Between any I/O pins to GND	-	0.6	0.8	pF

NOTES :

1. Testing using Transmission Line Pulse (TLP) conditions: $Z_0 = 50\Omega$, $t_P = 100$ ns.

May 4,2016-REV.03





PJE5V0U8TB-AU







PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJE5V0U8TB-AU_R1_000A1	SOT-523	4K pcs / 7" reel	8T	Halogen free
		· · · ·		

For example :

RB500V-40_R2_00001

• Version code means HF

Part No.

- Packing type means T/R

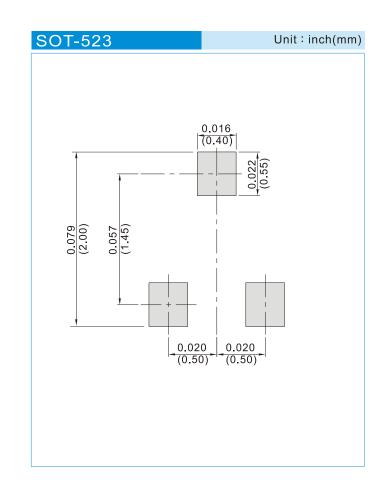
Packing size code means 13"

Packing Code XX			Versio	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			





MOUNTING PAD LAYOUT





PJE5V0U8TB-AU

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