



Ultra Low Capacitance ESD Protection

Voltage

5 V

Features

- IEC61000-4-2(ESD): ±17kV Air, ±12kV Contact Compliance
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 5A(8/20μS)
- Low leakage current, maximum 1μA at rated voltage
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std. (Halogen Free)

Mechanical Data

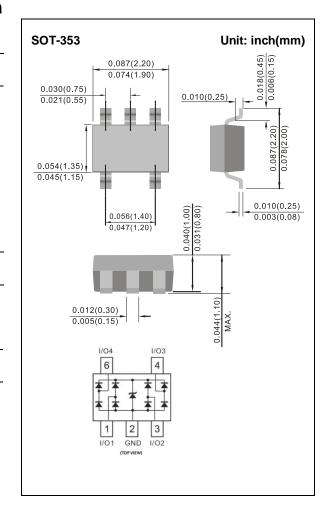
- Case: SOT353, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.006 grams

Applications

- USB2.0 Data Line Protection
- Video Graphics Cards
- Monitors and Flat Panel Displays Notebook computers
- Digital Video Interface(DVI)
- 10/100/1000 Ethernet
- ATM Interfaces
- Control Signal Lines Protection

Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS	
ESD IEC61000-4-2(Air)		±17	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±12		
Operating Junction Temperature Range	TJ	-55 to +150	°C	
Storage Temperature Range	T _{STG}	-55 to +150	°C	







Electrical Characteristics

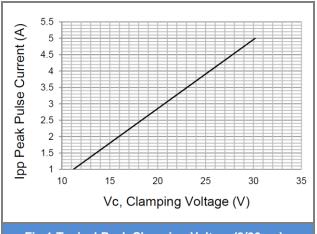
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage (Note 1)	V_{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	6	-	9	V
Reverse Leakage Current	I _R	V _R =5.0V	-	-	1	μА
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs, any I/O pin to GND	-	-	15	V
		I _{PP} =5A, t _P =8/20μs any I/O pin to GND	-	-	28	V
Off State Junction Capacitance	С	0Vdc Bias f=1MHz, Between any I/O pins to GND	-	-	0.8	pF
		0Vdc Bias f=1MHz, Between any I/O pins	-	-	0.4	

Note: 1.A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.





TYPICAL CHARACTERISTIC CURVES



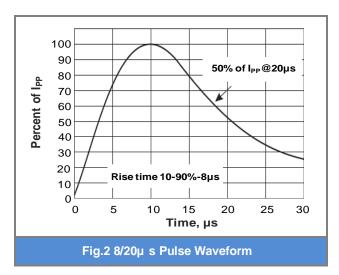


Fig.1 Typical Peak Clamping Voltage(8/20μ s)

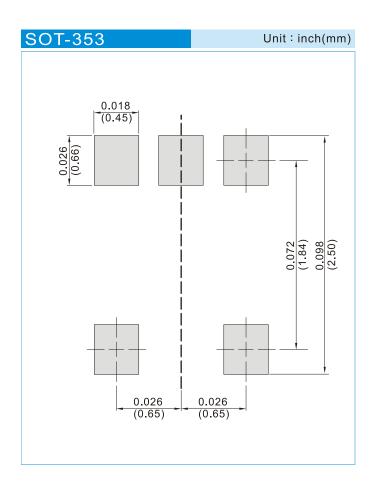




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PE1805C4C5_R1_00001	SOT-353	3K pcs / 7" reel	UW5	Halogen free
PE1805C4C5_R2_00001	SOT-353	10K pcs / 13" reel	UW5	Halogen free

MOUNTING PAD LAYOUT







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