

VRWM

Features

- Bidirectional ESD protection of one line
- IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact

5 V

- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 3A(8/20μS)
- Low leakage current, maximum of 0.1µA 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

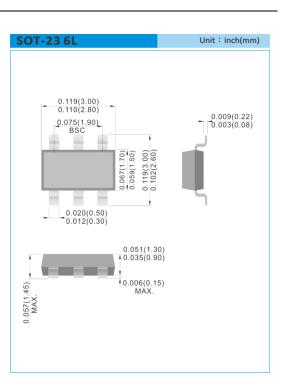
- Case: SOT-23 6L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0005 ounces, 0.014 grams
- Marking: K6E

Applications

- USB2.0 Data Line & Power 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 ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS		
Peak Pulse Current(8/20µs)	I _{PP}	3	А		
ESD IEC61000-4-2(Air)		±15			
ESD IEC61000-4-2(Contact)	V _{ESD}	±8	kV		
Operating Junction Temperature	TJ	-55 to +125	°C		
Storage Temperature Range	T _{STG}	-55 to +150	°C		



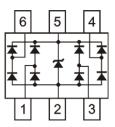
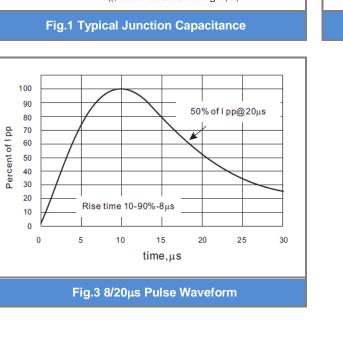


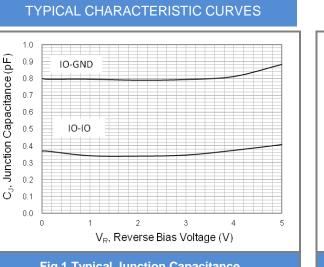
Fig.70(Top View)

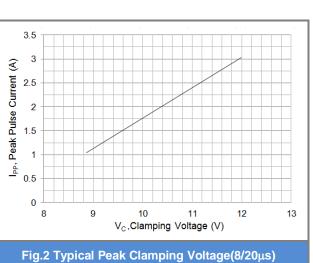


Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)									
	•		•						
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS			
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V			
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA, PIN 5 to GND	6	-	8.8	V			
Reverse leakage current	I _R	V _R =5V, PIN 5 to GND	-	-	0.5	μΑ			
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	9	12	V			
		I _{PP} =3A, t _P =8/20μs	-	12	20				
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz, Between any I/O pins to GND	-	0.8	1	pF			
		0Vdc Bias f=1MHz, Between any I/O pins	-	0.4	-				

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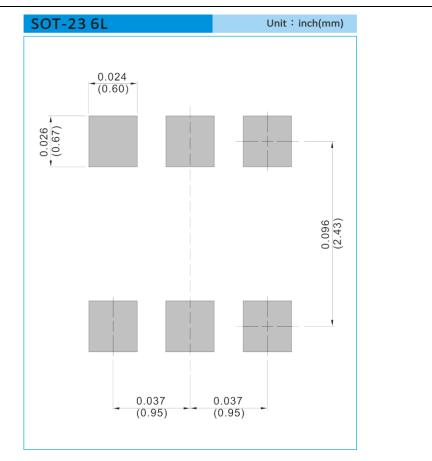












ORDER INFORMATION

Packing information

T/R – 10K per 13" plastic Reel T/R – 3K per 7" plastic Reel









Part No_packing code_Version

PJE5V0V1W6_R1_00001 PJE5V0V1W6_R2_00001 PJE5V0V1W6_S1_00001 PJE5V0V1W6_S2_00001

For example :

RB500V-40_R2_00001



 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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