

SINGLE LINE TVS DIODE FOR ESD PROTECTION PORTABLE ELECTRONICS

SOD-323 Unit : inch(mm) 8.5~14 Ampere IPP VOLTAGE 24~48 Volt **FEATURES** • Small package for use in portable electronics 0.078(1.95) · Suitable replacement for MLV'S in ESD protection applications 0.014(0.35) · Low clamping voltage and leakage current 0.054(1.35) 0.036(0.90) • High surge capability • Lead free in compliance with EU RoHS 2011/65/EU directive • Green molding compound as per IEC61249 Std. . (Halogen Free) 0.006(0.15) **MECHANICAL DATA** 0.012(0.30)MIN. • Case : SOD-323, Molded plastic over passivated junction • Terminals : Solderable per MIL-STD-750, Method 2026 • Approx Weight : 0.00014 ounces, 0.0041 grams

Cathode

MAXIMUM RATINGS AND ELECTRICAL CHATACTERISTICS

Rating	Symbol	Value	Units
Operating Temperature And Storage Temperature	T_,T _{stg}	-55 to +150	°C

Anode

ELECTRICAL CHATACTERISTICS (T_=25°C)

PJE24HWS Marking QM

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage (Notes 4)	V _{RRM}	-	-	-	24	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	26	-	30	V
Reverse Leakage Current	I _R	V _R =24V	-	-	1	μΑ
ESD Voltage (Air, Contact Mode)	V _{ESD}	-			30(Contact) 30(Air)	kV
Clamping Voltage (tp=8/20µs) (Notes 1,2,3)	V _c	I _{PP} =14A	-	-	45	V
Off State Junction Capacitance	C	0Vdc Bias, f=1MHz	-	-	100	pF

NOTES :

1. Non-repetitive current pulse.

2. Mounted on copper pads to each terminal.

3. Peak pulse power waveform is tp=8/20 μ s.

4. A transient suppressor is selected according to the working peak reverse voltage (VRWM), which should be equal to or greater than the DC or continuous peak operating voltage level.



PJE36HWS Marking JE4

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage (Notes 4)	V _{RRM}	-	-	-	36	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	40	-	44.2	V
Reverse Leakage Current	I _R	V _R =36V	-	-	1	μΑ
ESD Voltage (Air, Contact Mode)	V _{ESD}	-			30(Contact) 30(Air)	kV
Clamping Voltage (tp=8/20µs) (Notes 1,2,3)	V _c	I _{pp} =8.5А	-	-	70	V
Off State Junction Capacitance	C」	0Vdc Bias, f=1MHz	-	-	75	pF

PJE48HWS Marking JE3

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage (Notes 4)	V _{RRM}	-	-	-	48	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	53.3	-	58.9	V
Reverse Leakage Current	I _R	V _R =48V	-	-	1	μA
ESD Voltage (Air, Contact Mode)	V _{ESD}	-			30(Contact) 30(Air)	kV
Clamping Voltage (tp=8/20µs) (Notes 1,2,3)	V _c	I _{РР} =6.5А	-	-	80	V
Off State Junction Capacitance	CJ	0Vdc Bias, f=1MHz	-	-	60	pF

NOTES :

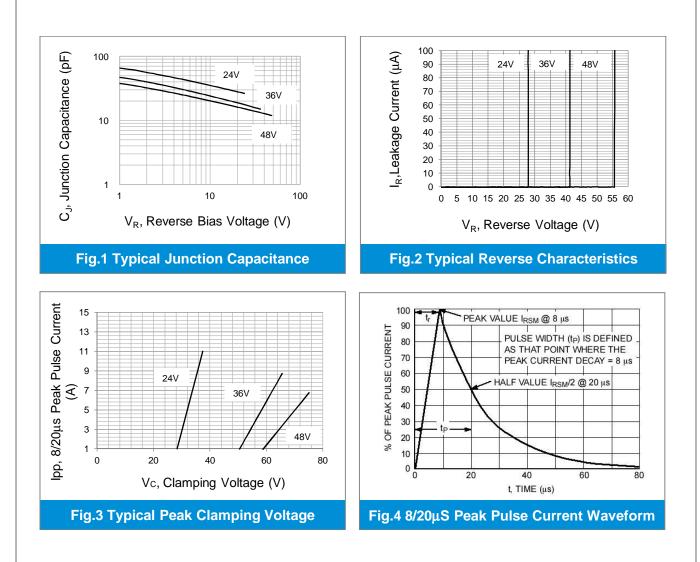
1. Non-repetitive current pulse.

2. Mounted on copper pads to each terminal.

3. Peak pulse power waveform is tp=8/20 $\mu s.$

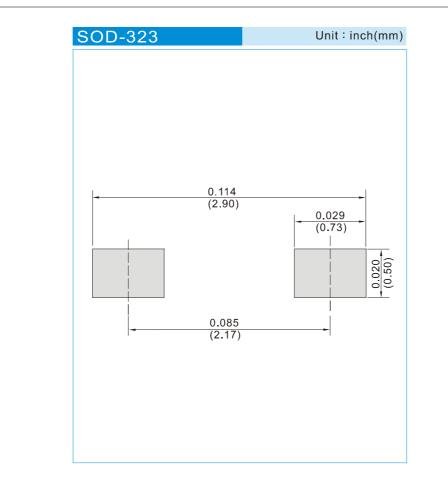
4. A transient suppressor is selected according to the working peak reverse voltage (VRWM), which should be equal to or greater than the DC or continuous peak operating voltage level.







MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel



Part No_packing code_Version

PJE24HWS_R1_00001 PJE24HWS_R2_00001

For example :

RB500V-40_R2_00001

Part No.

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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PJE48HWS_R1_00001 PJE48HWS_R2_00001