



# PJET3V3TS

## SINGLE LINE TVS DIODE FOR ESD PROTECTION PORTABLE ELECTRONICS

**VOLTAGE** 3.3 Volts **IPP** 5.5 Amperes

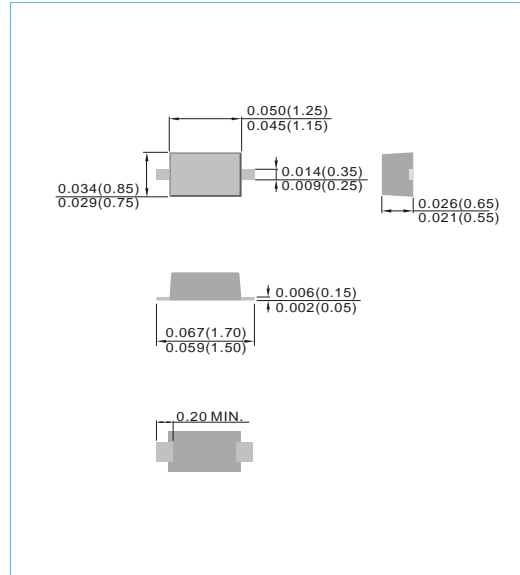
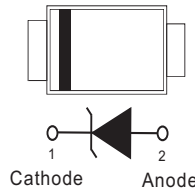
**SOD-523** Unit : inch(mm)

### FEATURES

- Small package for use in portable electronics
- Suitable replacement for MLV'S in ESD protection applications
- Low clamping voltage and leakage current
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### APPLICATIONS

- Case : SOD-523 plastic
- Terminals : Solderable per MIL-STD-750,Method 2026
- Approx Weight : 0.0014 grams
- Marking : QN



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating	Symbol	Value	Units
Peak Pulse Current on 8/20 $\mu$ s waveform (Notes 1,2,3)	$I_{PPM}$	5.5	Amps
ESD Voltage Air Mode	$V_{ESD}$	25	KV
ESD Voltage Contact Mode	$V_{ESD}$	30	KV
Operating Temperature And Storage Temperature	$T_J, T_{STG}$	-55 to +150	$^{\circ}$ C

### ELECTRICAL CHARACTERISTICS

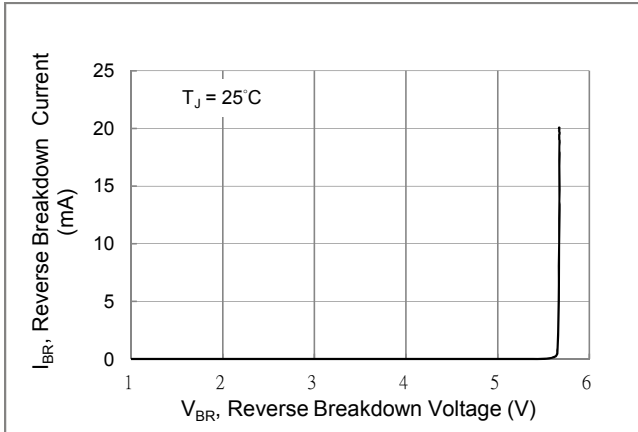
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage (Notes 4)	$V_{RWM}$	-	-	-	3.3	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	5.25	-	5.95	V
Reverse Leakage Current	$I_R$	$V_R=3.3V$	-	-	0.5	$\mu$ A
Clamping Voltage (8/20 $\mu$ s)	$V_C$	$I_{PP}=5.5A$	-	-	7.9	V
Off State Junction Capacitance	$C_J$	0Vdc Bias, f=1MHz	-	-	40	pF

#### NOTES :

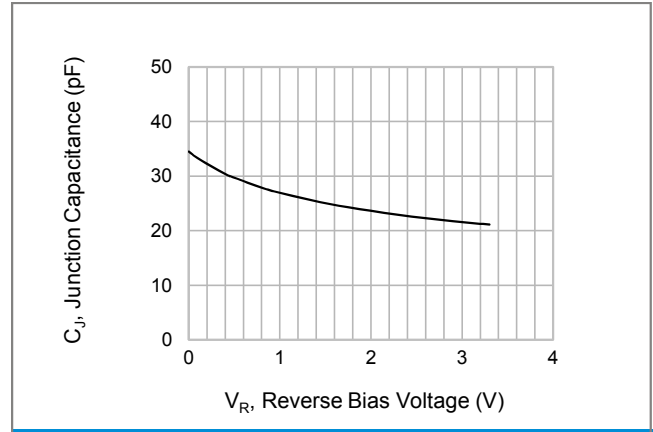
1. Non-repetitive current pulse.
2. Mounted on copper pads to each terminal.
3. Peak pulse power waveform is 8/20 $\mu$ s.
4. A transient suppressor is selected according to the working peak reverse voltage ( $V_{RWM}$ ), which should be equal to or greater than the DC or continuous peak operating voltage level.



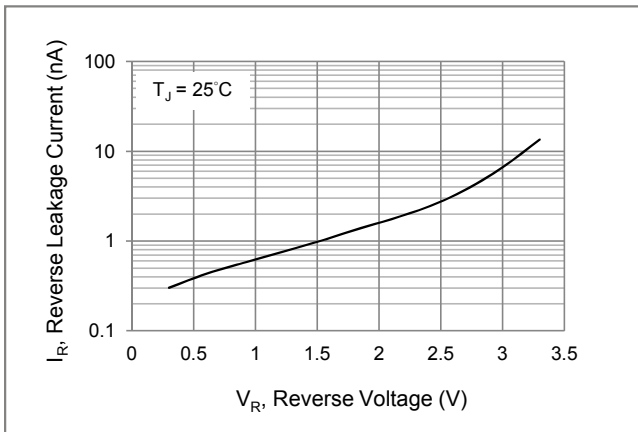
# PJET3V3TS



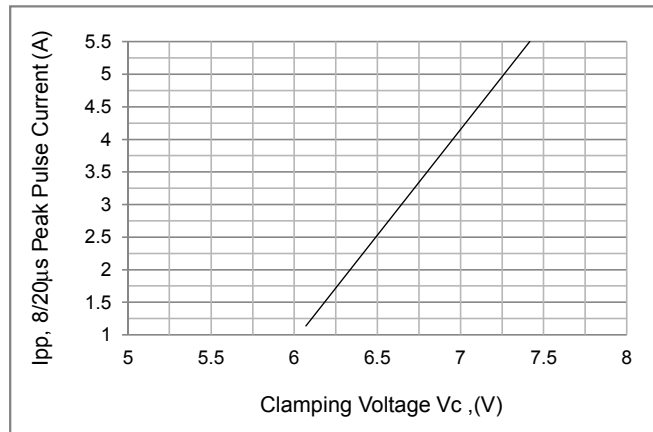
**Fig.1 Typical Reverse Characteristics**



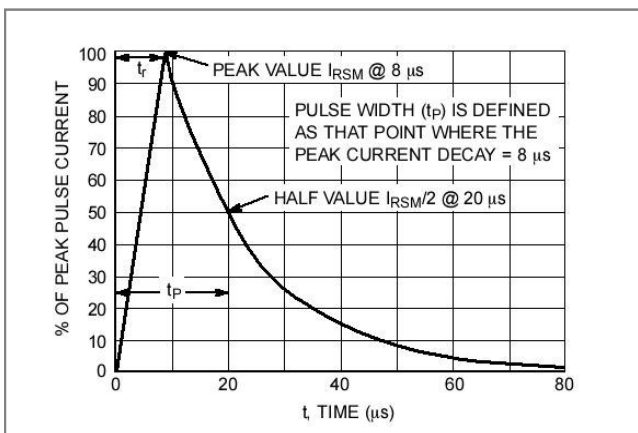
**Fig.2 Typical Junction Capacitance**



**Fig.3 Reverse Leakage Current**



**Fig.4 Typical Peak Clamping Voltage**



**Fig.5 8/20µS Peak Pulse Current Waveform**

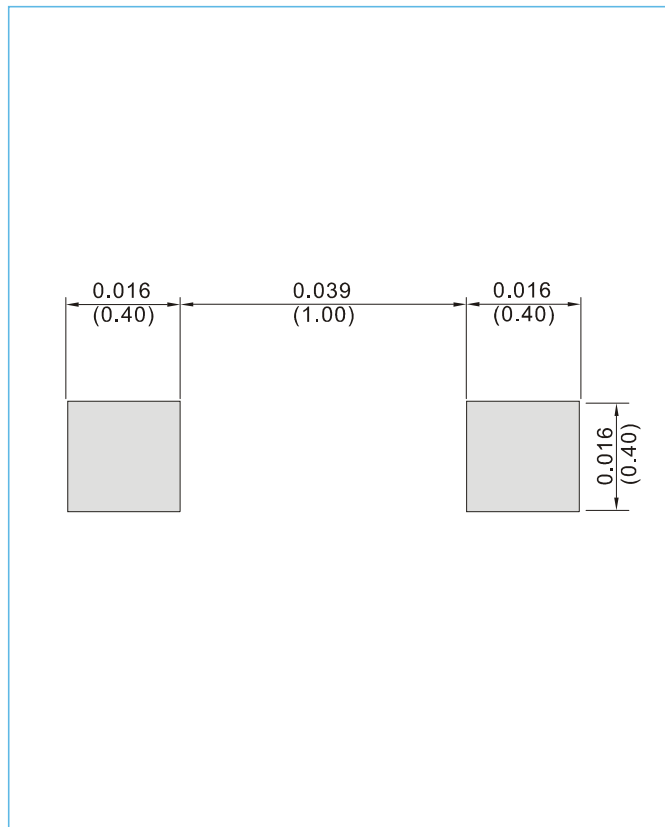


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## MOUNTING PAD LAYOUT

SOD-523

Unit : inch(mm)



## ORDER INFORMATION

- Packing information  
T/R - 12K per 13" plastic Reel  
T/R - 5K per 7" plastic Reel



# PJET3V3TS

## Part No\_packing code\_Version

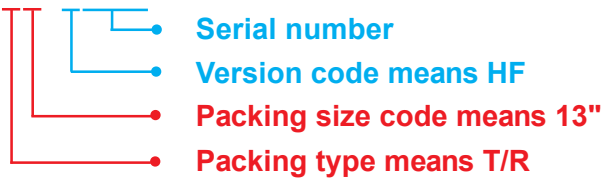
PJET3V3TS\_R1\_00001

PJET3V3TS\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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