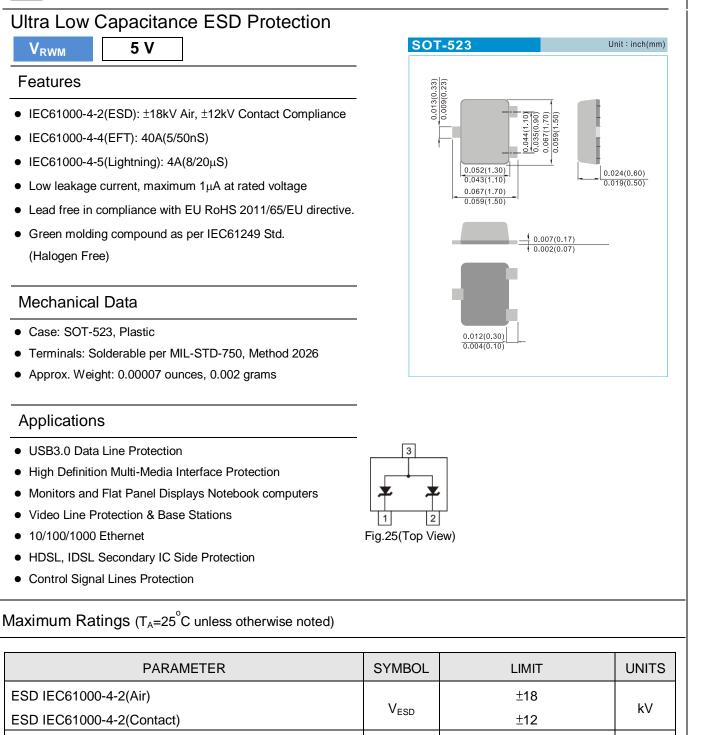
### PJE5V0U8TB

CONDUCTOR

PAN



T<sub>1</sub>

T<sub>STG</sub>

**Operating Junction Temperature Range** 

Storage Temperature Range

•

•

.

.

•

°C

°C

-55 to +150

-55 to +150



# ς.

## PJE5V0U8TB

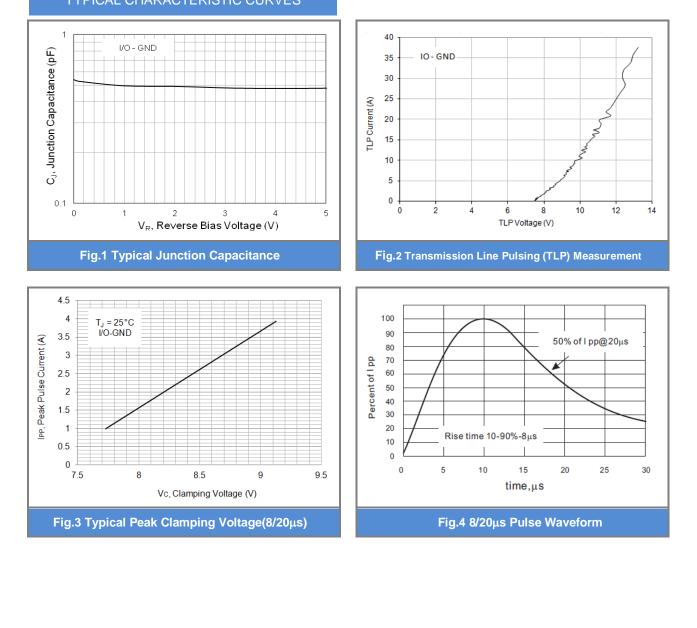
Electrical Characteristics ( $T_A=25^{\circ}C$  unless otherwise noted)

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



TYPICAL CHARACTERISTIC CURVES

### 

PJE5V0U8TB







### PJE5V0U8TB

#### PART NO PACKING CODE VERSION

| Part No Packing Code | Package Type | Packing Type     | Marking | Version      |
|----------------------|--------------|------------------|---------|--------------|
| PJE5V0U8TB_R1_00001  | SOT-523      | 4K pcs / 7" reel | 8T      | Halogen free |

For example :

#### RB500V-40\_R2\_00001

Part N

Serial number

----- Version code means HF

Part No.

-• Packing type means T/R

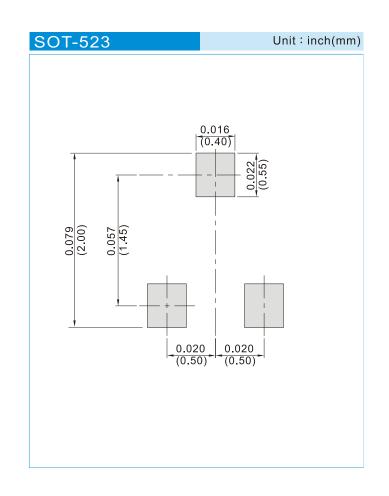
• Packing size code means 13"

| Packing type1st<br>CodeTape and Ammunition<br>Box (T/B)ATape and Reel (T/R)R | Packing size code<br>N/A            | 2 <sup>nd</sup><br>Code | HF or<br>RoHS | 1 <sup>st</sup><br>Code | 2 <sup>nd</sup> ~5 <sup>th</sup><br>Code |
|--|-------------------------------------|-------------------------|---------------|-------------------------|--|
| Box (T/B)  | N/A                                 |                         |               |                         |  |
| Tape and Reel (T/R) R  |                                     | 0                       | HF            | 0                       | serial<br>number                         |
|  | 7"                                  | 1                       | RoHS          | 1                       | serial<br>number                         |
| Bulk Packing (B/P) B   | 13"                                 | 2                       |               |                         |  |
| Tube Packing (T/P) T   | 26mm                                | x                       |               |                         | l  |
| Tape and Reel (Right Oriented)<br>(TRR) S                                    | 52mm                                | Y                       |               |                         |  |
| Tape and Reel (Left Oriented)<br>(TRL)                                       | PANASERT T/B<br>CATHODE UP (PBCU)   | U                       |               |                         |  |
| FORMING F  | PANASERT T/B<br>CATHODE DOWN (PBCD) | D                       |               |                         |  |





#### MOUNTING PAD LAYOUT



- 20



### PJE5V0U8TB

### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.