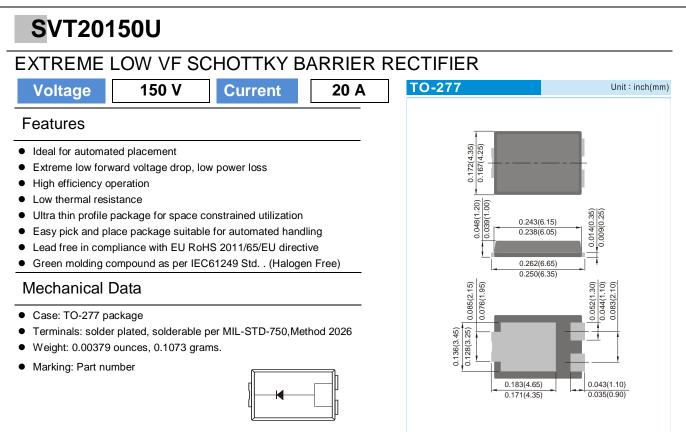
| ΡΛΝ | ĴΤ                |
|-----|-------------------|
|     | SEMI<br>CONDUCTOR |



Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

| PARAMETER   |          | SYMBOL                | LIMIT       | UNIT |  |
|---|----------|-----------------------|-------------|------|--|
| Maximum repetitive peak reverse voltage   |          | Vrrm                  | 150         | V    |  |
| Maximum rms voltage   |          | Vrms                  | 105         | V    |  |
| Maximum dc blocking voltage   |          | Vr                    | 150         | V    |  |
| Maximum average forward rectified current   |          | lf(AV)                | 20          | А    |  |
| Peak forward surge current : 8.3ms single half sine-<br>wave superimposed on rated load |          | IFSM                  | 250         | A    |  |
| - · · · · · · · · · · · · · · · · · · ·   | (Note 1) | $R_{	extsf{	heta}JA}$ | 110         | °C/W |  |
| Typical thermal resistance  | (Note 2) | $R_{	ext{	heta}JC}$   | 3           |      |  |
| Operating junction temperature range  |          | TJ                    | -55 to +150 | °C   |  |
| Storage temperature range   |          | Тѕтс                  | -55 to +150 | °C   |  |

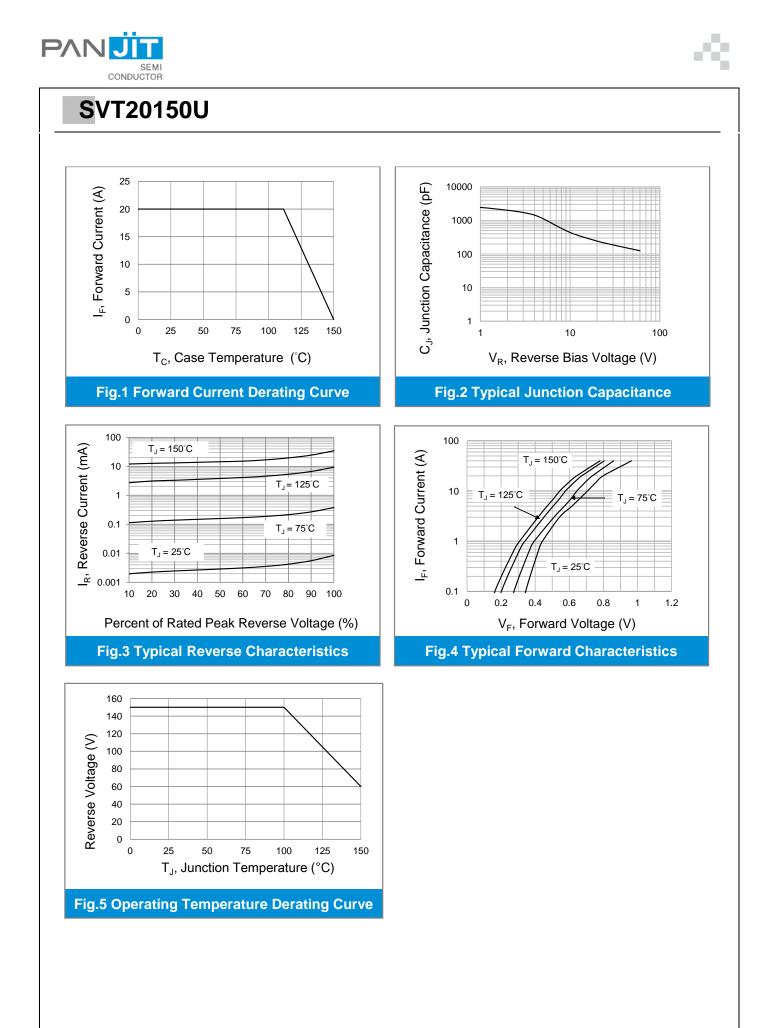
Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on a 10cm\*10cm\*1mm copper pad area

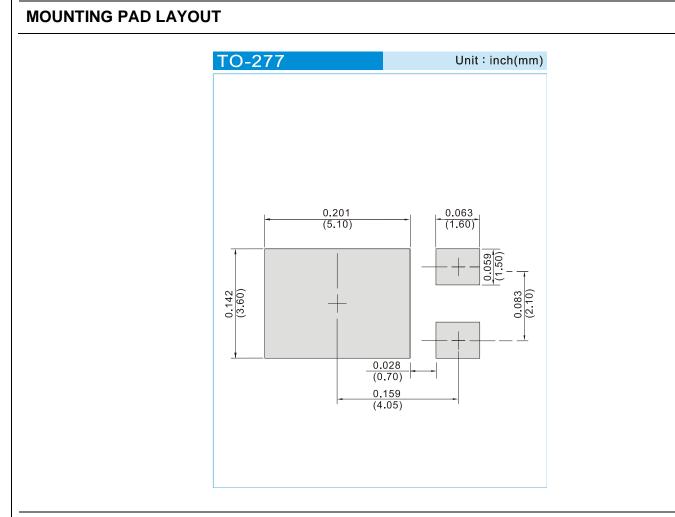


Electrical Characteristics ( $T_A=25^{\circ}C$  unless otherwise noted)

| PARAMETER                        | SYMBOL               | TEST CONDITION        |          | MIN. | TYP. | MAX. | UNITS |
|----------------------------------|----------------------|-----------------------|----------|------|------|------|-------|
| Breakdown voltage                | $V_{BR}$             | I <sub>R</sub> =0.5mA | TJ=25°C  | 150  | -    | -    | V     |
| Instantaneous forward<br>voltage |                      | I <sub>F</sub> =1A    | TJ=25°C  | -    | 0.44 | -    | V     |
|                                  | V <sub>F</sub>       | I <sub>F</sub> =10A   |          | -    | 0.71 | -    |       |
|                                  |                      | I <sub>F</sub> =20A   |          | -    | 0.78 | 0.84 |       |
|                                  |                      | I <sub>F</sub> =1A    | TJ=125°C | -    | 0.34 | -    | V     |
|                                  |                      | I <sub>F</sub> =10A   |          | -    | 0.58 | -    |       |
| Reverse current I <sub>R</sub>   | V <sub>R</sub> =120V | TJ=25°C               | -        | 5    | -    | μA   |       |
|                                  | I <sub>R</sub>       | V <sub>R</sub> =150V  | TJ=25°C  | -    | -    | 30   | μA    |
|                                  |                      |                       | TJ=125°C | -    | 10   | -    | mA    |







#### ORDER INFORMATION

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



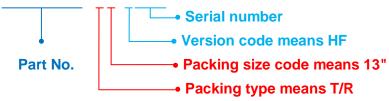


#### Part No\_packing code\_Version

SVT20150U\_R2\_00001

#### For example :

#### RB500V-40\_R2\_00001



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





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