

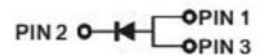
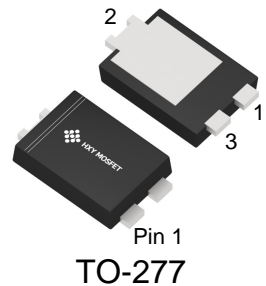


## Features

- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CP10S45SG.

## Package Marking and Ordering Information

| Product ID       | Pack   | Marking  | Qty(PCS) |
|------------------|--------|----------|----------|
| NRVTS10100PFST3G | TO-277 | SB10100L | 5000     |



## Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| Type Number  | Limit       | Units |
|--|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage   | 100         | V     |
| Maximum RMS Voltage  | 70          | V     |
| Maximum DC Blocking Voltage  | 100         | V     |
| Maximum Average Forward Rectified Current  | 10.0        | A     |
| See Fig. 1   |             |       |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 150         | A     |
| Maximum Instantaneous Forward Voltage at 10.0A   | 0.67        | V     |
| Maximum DC Reverse Current Ta=25°C   | 0.1         | mA    |
| at Rated DC Blocking Voltage Ta=125°C  | 20          | mA    |
| Typical Junction Capacitance (Note1)   | 500         | pF    |
| Typical Thermal Resistance RJA (Note 2)  | 60          | °C/W  |
| Operating Temperature Range TJ   | -50 to +150 | °C    |
| Storage Temperature Range Tstg   | -50 to +150 | °C    |

Note : 1.FR-4 PCB, 2oz.Copper.

2.Polyimide PCB, 2oz.Copper.Cathode pad dimensions 18.8mm x 14.4mm.Anode pad dimensions 5.6mm x 14.4mm.



## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

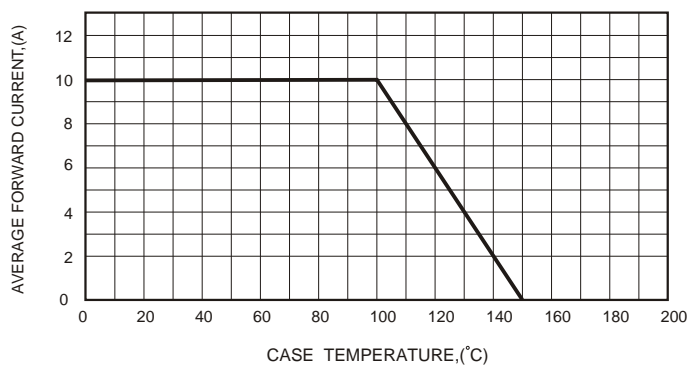


FIG.2-TYPICAL FORWARD CHARACTERISTICS

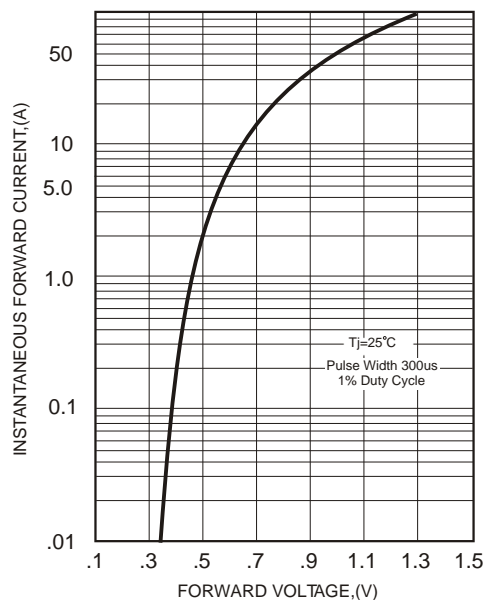


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

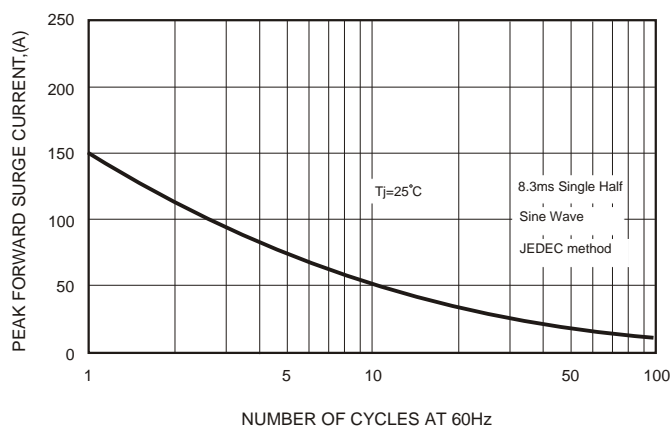


FIG.4-TYPICAL JUNCTION CAPACITANCE

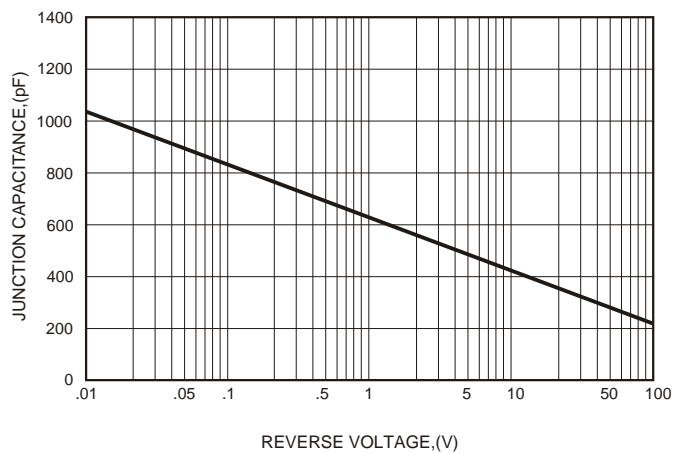
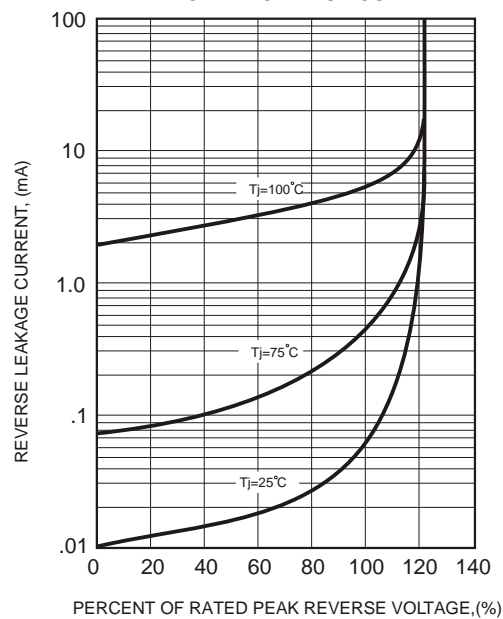
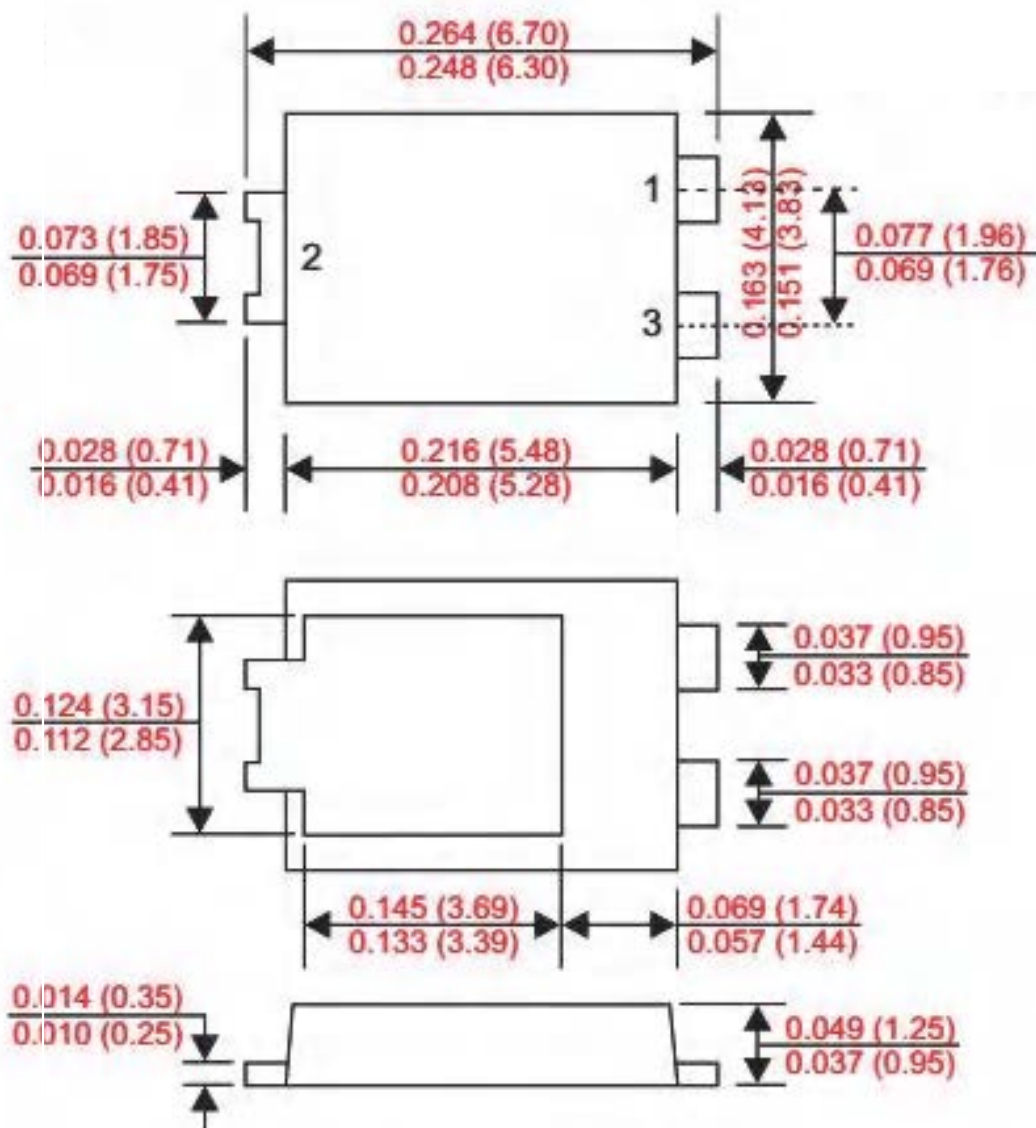


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





## TO-277 Package Outline Dimensions



Dimensions in inches and (millimeters)



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