



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SBT250-06J

— Schottky Barrier Diode (Twin Type · Cathode Common)
60V, 25A Rectifier

Applications

- High frequency rectification (switching regulators, converters, choppers).

Features

- $T_j=150^{\circ}\text{C}$.
- Low forward voltage ($V_F \text{ max}=0.60\text{V}$).
- Short reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Attachment workability is good by Mica-less package.

Specifications

Absolute Maximum Ratings at $T_a=25^{\circ}\text{C}$

| Parameter | Symbol | Conditions | Ratings | Unit |
|--|-----------|---|-------------|--------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | | 60 | V |
| Nonrepetitive Peak Reverse Surge Voltage | V_{RSM} | | 66 | V |
| Average Output Current | I_O | 50Hz resistive load, Sine wave $T_c=73^{\circ}\text{C}$ | 25 | A |
| Surge Forward Current | I_{FSM} | 50Hz sine wave, 1 cycle | 120 | A |
| Junction Temperature | T_j | | -55 to +150 | $^{\circ}\text{C}$ |
| Storage Temperature | T_{stg} | | -55 to +150 | $^{\circ}\text{C}$ |

Electrical Characteristics at $T_a=25^{\circ}\text{C}$

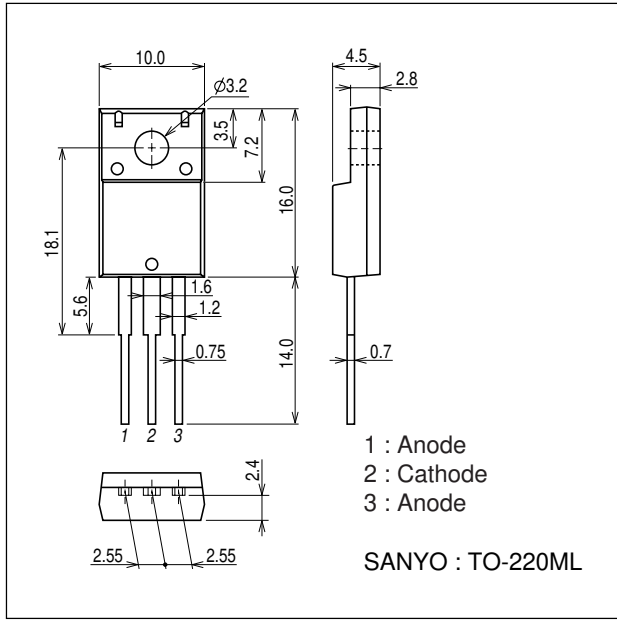
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---------------------------|---------------|---|---------|-----|------|-----------------------------|
| | | | min | typ | max | |
| Reverse Voltage | V_R | $I_R=3\text{mA}$, $T_j=25^{\circ}\text{C}^*$ | 60 | | | V |
| Forward Voltage | V_F | $I_F=10\text{A}$, $T_j=25^{\circ}\text{C}^*$ | | | 0.60 | V |
| Reverse Current | I_R | $V_R=30\text{V}$, $T_j=25^{\circ}\text{C}^*$ | | | 0.3 | mA |
| Interterminal Capacitance | C | $V_R=10\text{V}$, $T_j=25^{\circ}\text{C}^*$ | | 430 | | pF |
| Thermal Resistance | $R_{th(j-c)}$ | Junction-Case : Smoothed DC | | | 3.5 | $^{\circ}\text{C}/\text{W}$ |

Note) * : Value per element

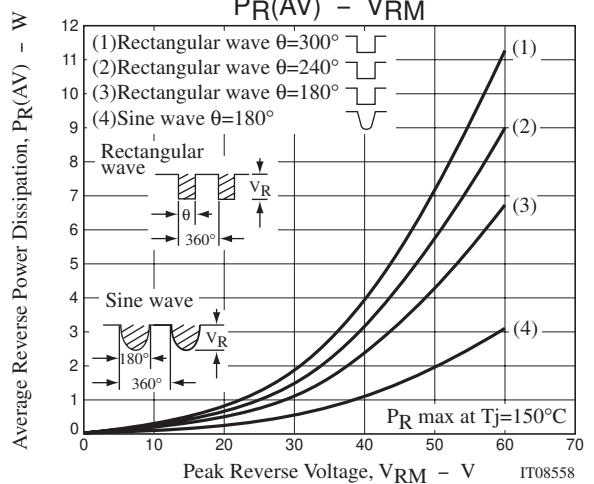
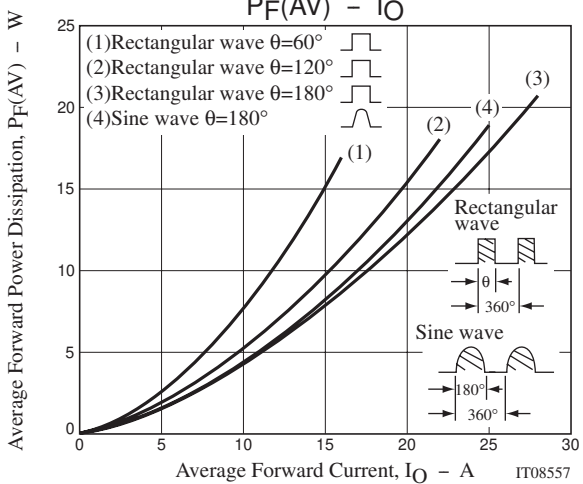
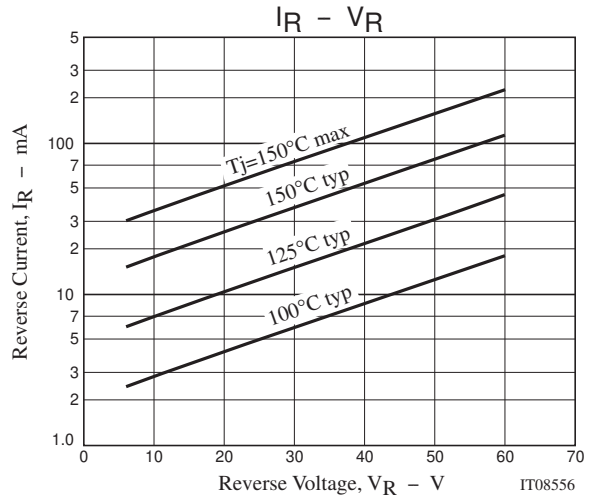
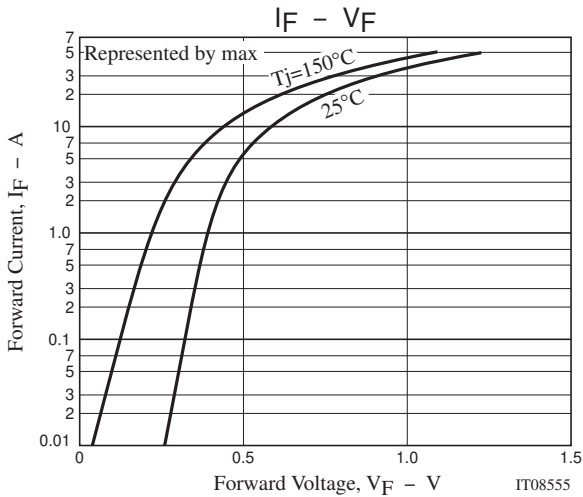
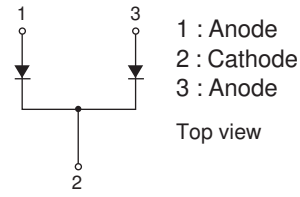
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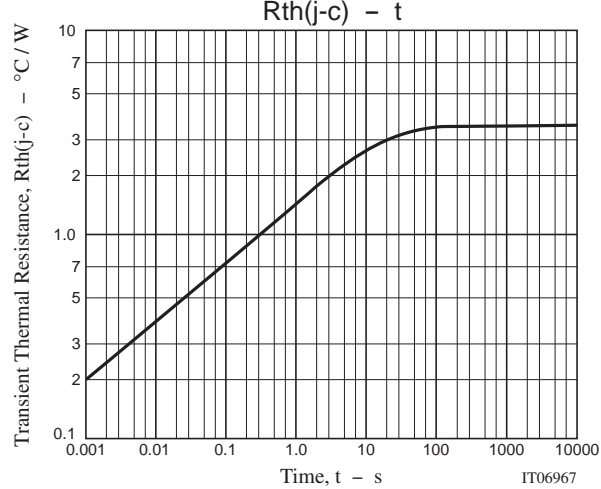
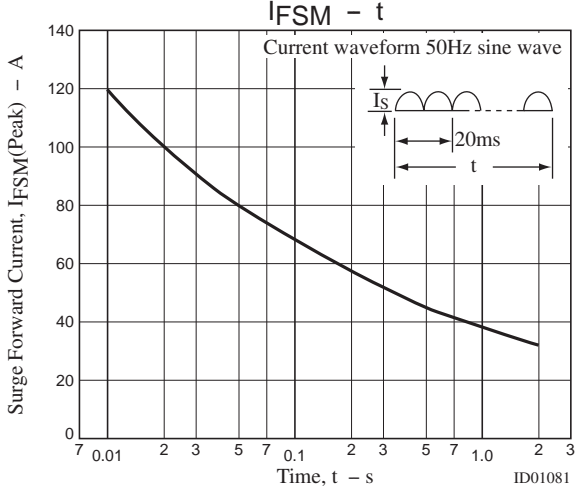
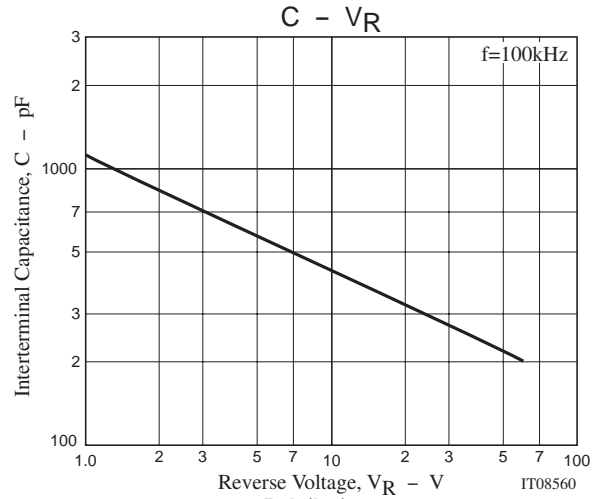
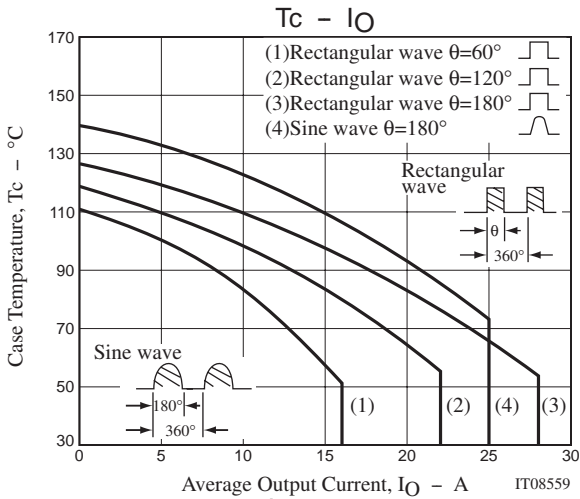
Package Dimensions

unit : mm
7508-001



Electrical Connection





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