**Applications**

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

**Features**

- Low forward voltage ( $V_F$  max = 0.55V)
- Fast reverse recovery time ( $t_{rr}$  max = 10ns)
- Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure
- Ultrasmall-sized package permitting SB02-03Q-applied sets to be compact and slim

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

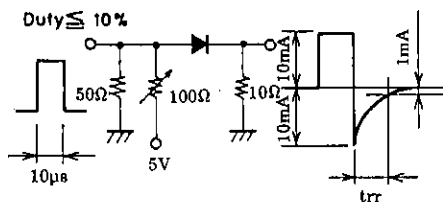
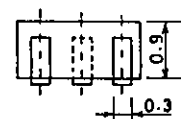
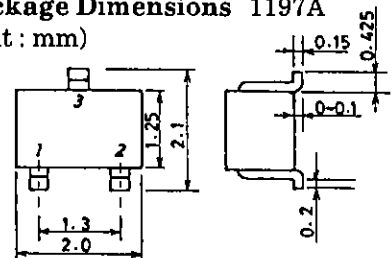
|                                 |           |                         | unit             |
|---------------------------------|-----------|-------------------------|------------------|
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | 30                      | V                |
| Nonrepetitive Peak Reverse      | $V_{RSM}$ | 35                      | V                |
| Surge Voltage                   |           |                         |                  |
| Average Output Current          | $I_O$     | 200                     | mA               |
| Surge Forward Current           | $I_{FSM}$ | 50Hz sine wave, 1 cycle | 2 A              |
| Junction Temperature            | $T_j$     | -55 to +125             | $^\circ\text{C}$ |
| Storage Temperature             | $T_{stg}$ | -55 to +125             | $^\circ\text{C}$ |

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

|                           |          |                                     | min | typ | max  | unit          |
|---------------------------|----------|-------------------------------------|-----|-----|------|---------------|
| Reverse Voltage           | $V_R$    | $I_R = 50\mu\text{A}$               | 30  |     |      | V             |
| Forward Voltage           | $V_F$    | $I_F = 200\text{mA}$                |     |     | 0.55 | V             |
| Reverse Current           | $I_R$    | $V_R = 15\text{V}$                  |     |     | 15   | $\mu\text{A}$ |
| Interterminal Capacitance | C        | $V_R = 10\text{V}, f = 1\text{MHz}$ |     | 6.3 |      | pF            |
| Reverse Recovery Time     | $t_{rr}$ | $I_F = I_R = 10\text{mA}$           |     |     | 10   | ns            |

See specified Test Circuit.

Marking : H

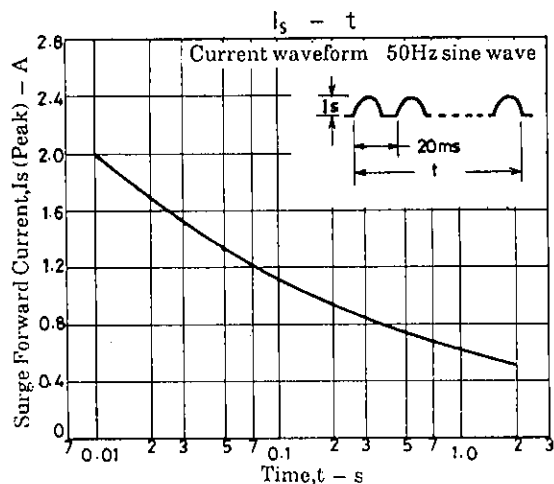
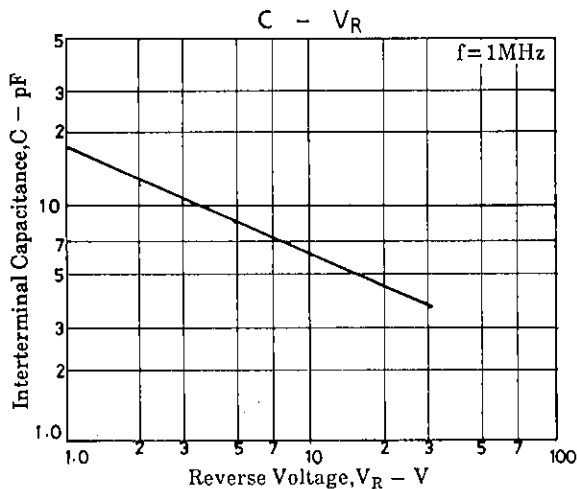
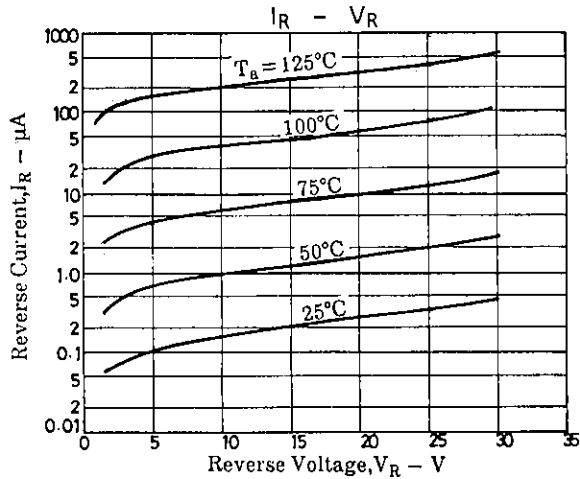
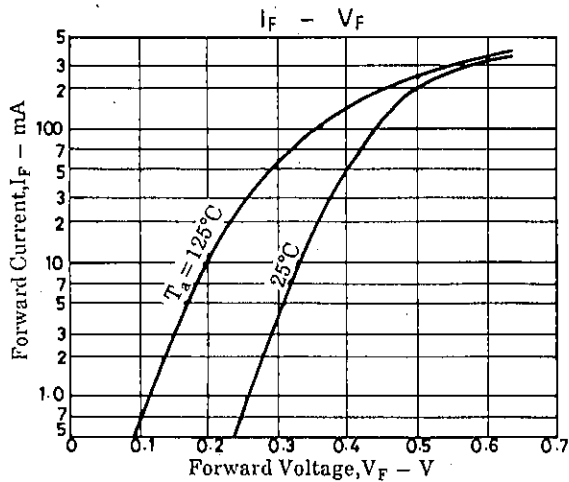
 **$t_{rr}$  Test Circuit****Package Dimensions 1197A**  
(unit : mm)

1 : Anode  
2 : No Contact  
3 : Cathode

SANYO : MCP

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