

**1SS350**

Silicon Epitaxial Schottky Barrier Diode

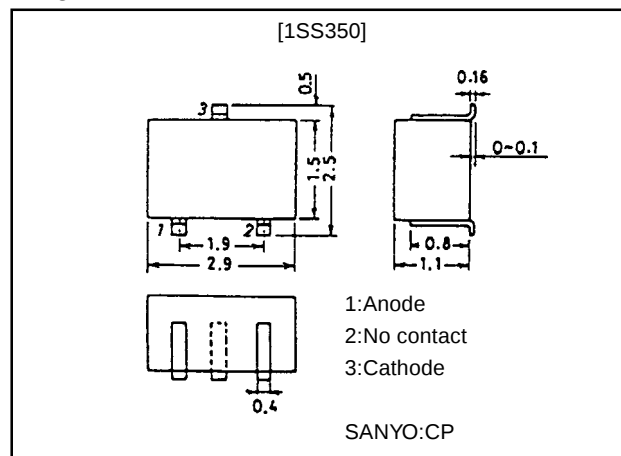
**UHF Detector, Mixer Applications****Features**

- Small interterminal capacitance ( $C=0.69\text{pF}$  typ).
- Low forward voltage ( $V_F=0.23\text{V}$  max).
- Very small-sized package permitting the 1SS350-applied sets to be made small and slim.

**Package Dimensions**

unit:mm

1148A

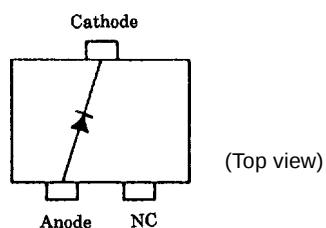
**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

| Parameter            | Symbol    | Conditions | Ratings     | Unit             |
|----------------------|-----------|------------|-------------|------------------|
| Peak Reverse Voltage | $V_{RM}$  |            | 5           | V                |
| Forward Current      | $I_F$     |            | 30          | mA               |
| Junction Temperature | $T_j$     |            | 125         | $^\circ\text{C}$ |
| Storage Temperature  | $T_{stg}$ |            | -55 to +125 | $^\circ\text{C}$ |

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

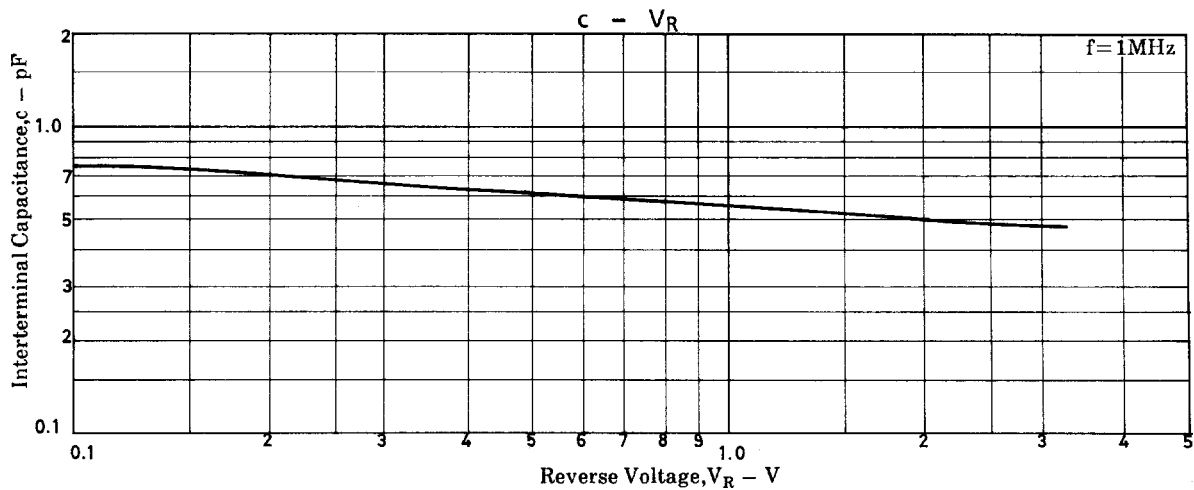
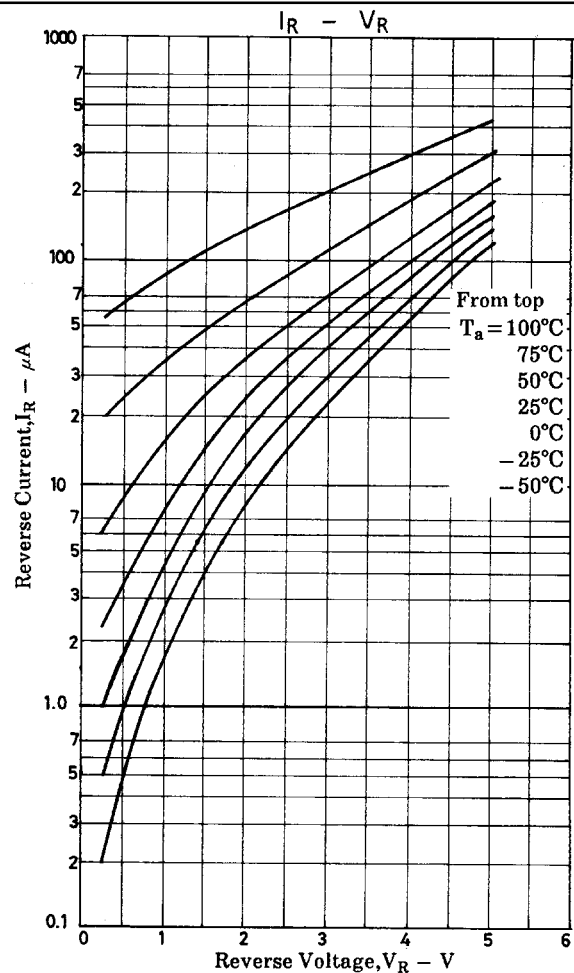
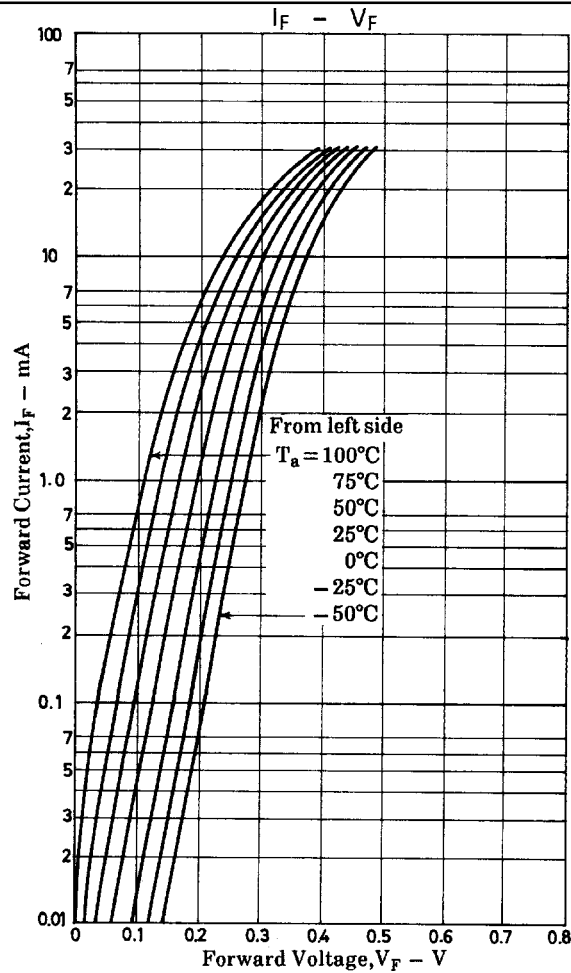
| Parameter                 | Symbol | Conditions                          | Ratings |      |      | Unit          |
|---------------------------|--------|-------------------------------------|---------|------|------|---------------|
|                           |        |                                     | min     | typ  | max  |               |
| Forward Voltage           | $V_F$  | $I_F=1\text{mA}$                    |         |      | 0.23 | V             |
| Forward Current           | $I_F$  | $V_F=0.5\text{V}$                   | 30      |      |      | mA            |
| Reverse Current           | $I_R$  | $V_R=0.5\text{V}$                   |         |      | 25   | $\mu\text{A}$ |
| Interterminal Capacitance | $C$    | $V_R=0.2\text{V}$ , $f=1\text{MHz}$ |         | 0.69 | 0.9  | pF            |

· Marking: BH

**Electrical Connection****SANYO Electric Co.,Ltd. Semiconductor Business Headquarters**

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

33098HA (KT)/52595GI (KOTO)/D149MO, TS 8-6183 No.3156-1/2



■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

■ Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use;
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.

■ Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of March, 1998. Specifications and information herein are subject to change without notice.