

<b>SANYO</b>	No.2984A	<b>SB02-03S</b>
		Schottky Barrier Diode
<b>30V, 200mA Rectifier</b>		

**Applications**

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

**Features**

- Low forward voltage ( $V_F \text{ max} = 0.55\text{V}$ )
- Fast reverse recovery time ( $t_{rr} \text{ max} = 10\text{ns}$ )
- Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure

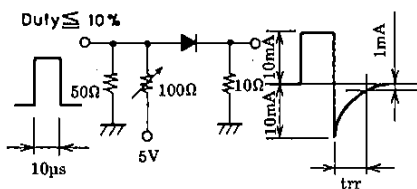
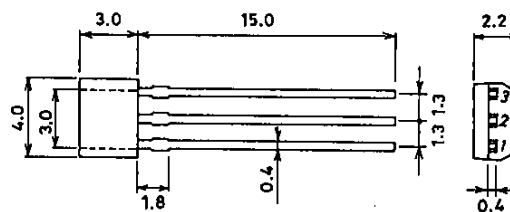
**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

			unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Non-repetitive Peak Reverse Surge Voltage	$V_{RSM}$	35	V
Average Output Current	$I_o$	200	mA
Surge Forward Current	$I_{FSM}$	2	A
Junction Temperature	$T_j$	-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

50Hz sine wave, 1 cycle

**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	$V_R = 10\text{V}, f = 1\text{MHz}$	6.6		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10\text{mA}$ , See specified Test Circuit.		10	ns
Thermal Resistance	$R_{thj-a}$		370		$^\circ\text{C/W}$

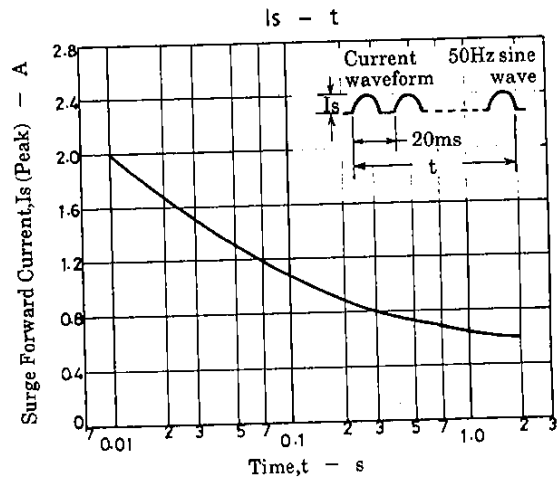
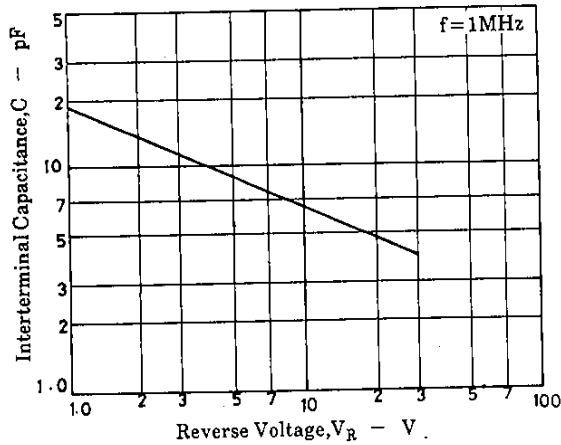
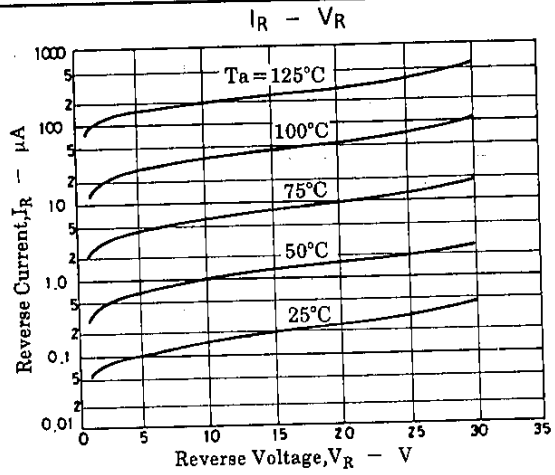
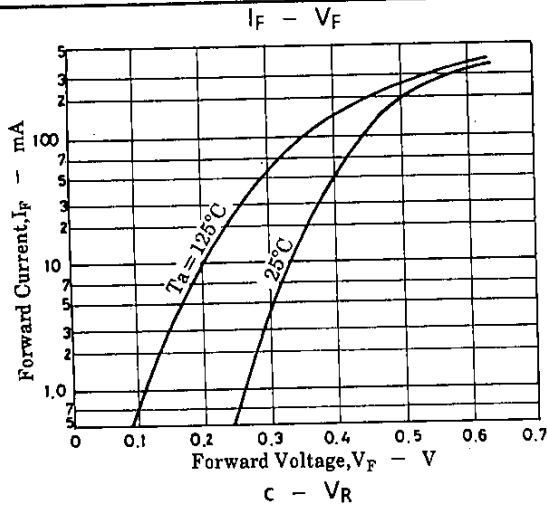
 **$t_{rr}$  Test Circuit****Package Dimensions 1156A**  
(unit: mm)

- 1: Anode  
2: Cathode  
3: No Contact

SANYO: SPA

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