

<b>SANYO</b>	No.3908A	<b>FC809</b>
		Schottky Barrier Diode
<b>30V, 70mA Rectifier</b>		

**Applications**

- General rectification 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).
- Composite type with 2 diodes contained in the CP package currently in use, saving the mounting space greatly.
- The FC809 is formed with two chips, each being equivalent to the SB007-03CP, placed in one package.

**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$  (Value per element)**

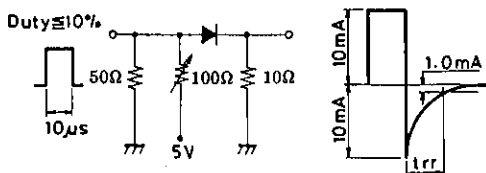
			unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$	35	V
Average Output Current	$I_o$	70	mA
Surge Forward Current	$I_{FSM}$	2	A
	50Hz sine wave, 1 cycle		
Junction Temperature	$T_j$	-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

**Electrical Characteristics at  $T_a = 25^\circ\text{C}$  (Value per element)**

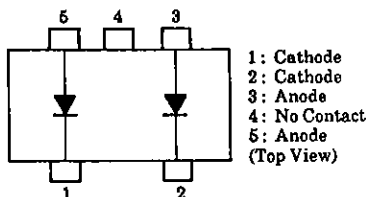
			min	typ	max	unit
Reverse Voltage	$V_R$	$I_R = 20\mu\text{A}$	30			V
Forward Voltage	$V_F$	$I_F = 70\text{mA}$			0.55	V
Reverse Current	$I_R$	$V_R = 15\text{V}$			5.0	$\mu\text{A}$
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		3.0		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10\text{mA}$			10	ns
		See specified Test Circuit				
Thermal Resistance	$R_{th(j-a)}$			560		$^\circ\text{C/W}$

Marking : 809

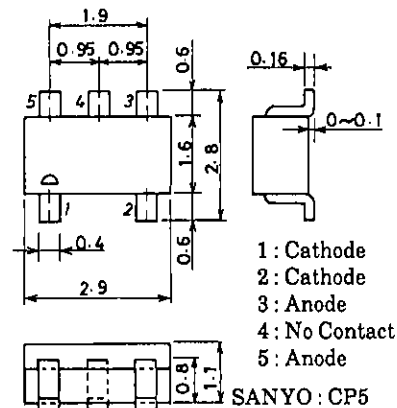
**$t_{rr}$  Test Circuit**



**Electrical Connection**

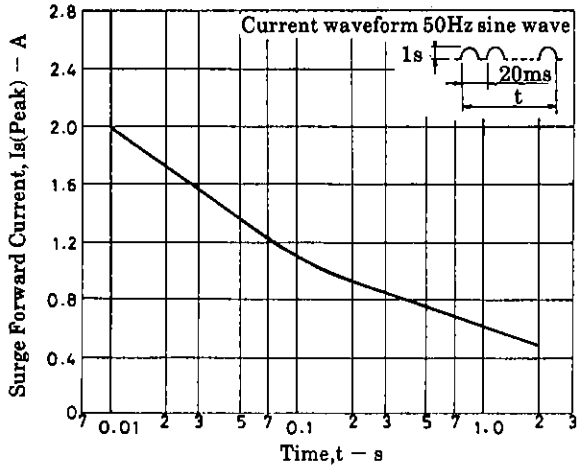
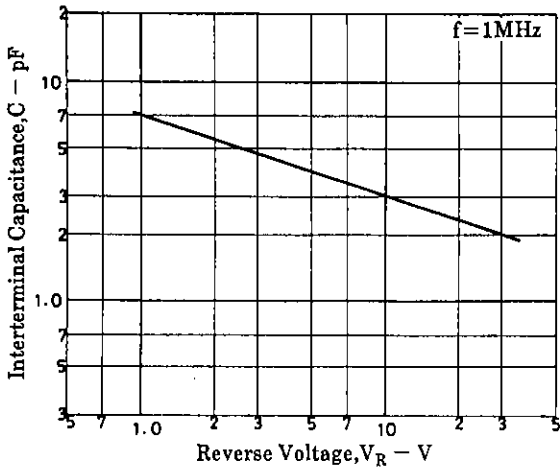
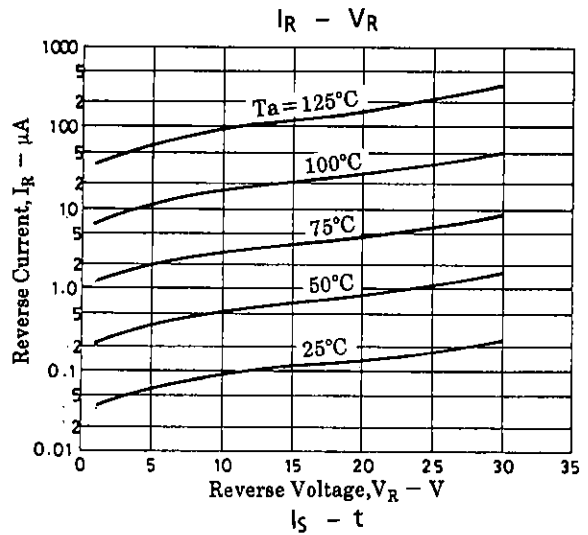
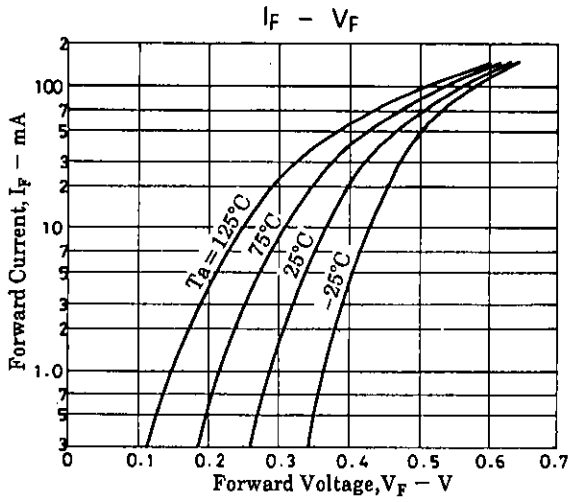


**Package Dimensions 1236A (unit : mm)**



- 1: Cathode
- 2: Cathode
- 3: Anode
- 4: No Contact
- 5: Anode

SANYO : CP5



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