

**SANYO****FC806**

Silicon Schottky Barrier Diode

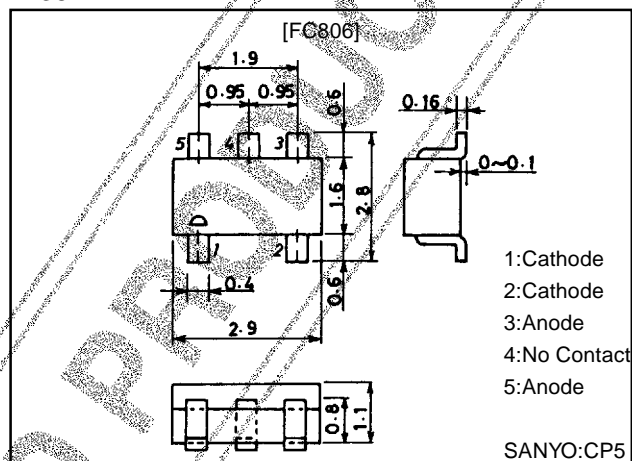
**50V, 100mA Rectifier****Features**

- 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 FC806 is formed with two chips, each being equivalent to the SB01-05CP, placed in one package.

**Package Dimensions**

unit:mm

1236A

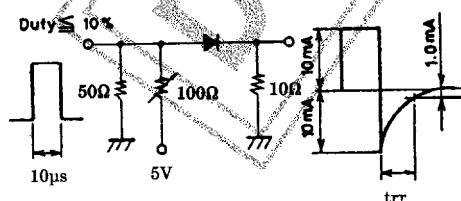
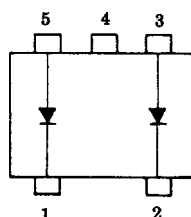
**Specifications**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		50	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		55	V
Average Output Current	$I_O$		100	mA
Surge Forward Current	$I_{FSM}$	50MHz 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  $T_a = 25^\circ\text{C}$ 

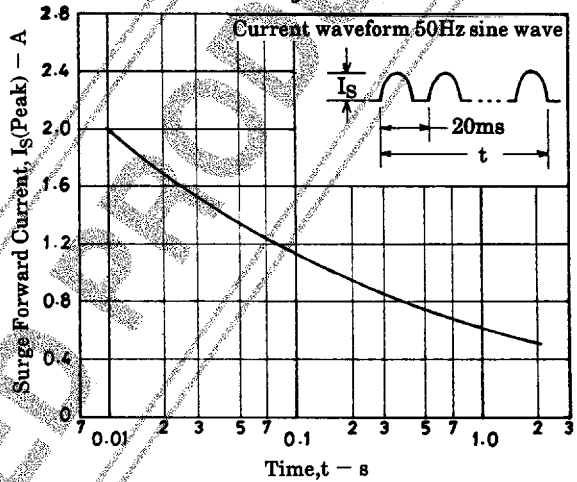
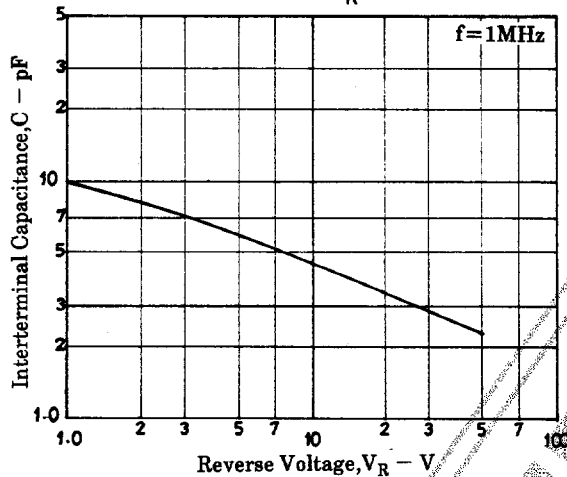
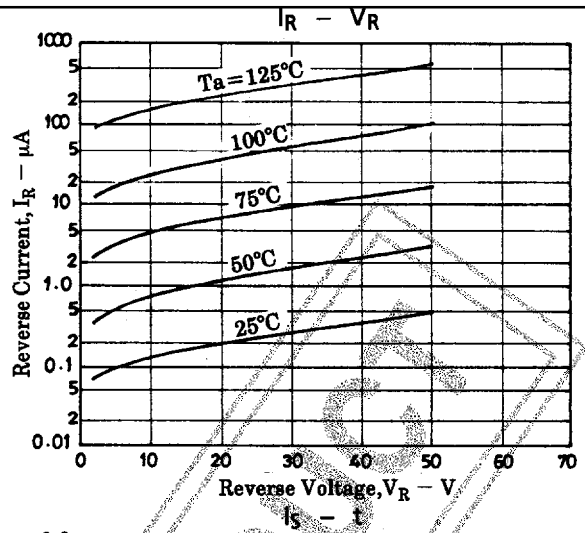
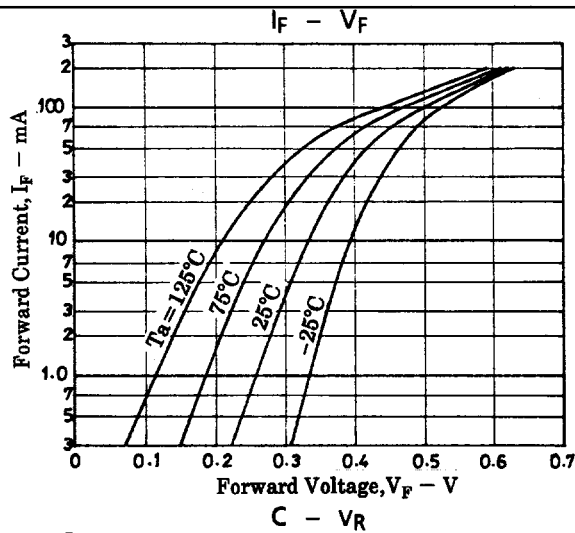
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=50\mu\text{A}$	50			V
Forward Voltage	$V_F$	$I_F=100\text{mA}$			0.55	V
Reverse Current	$I_R$	$V_R=25\text{V}$			15	$\mu\text{A}$
Interteminal Capacitance	$C$	$V_R=10\text{V}$ , $f=1\text{MHz}$		4.4		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=100\text{mA}$ , See specified Test Circuit			10	ns
Thermal Resistance	$R_{th} (j-a)$			560		$^\circ\text{C/W}$

· Marking:806

 **$t_{rr}$  Test Circuit****Electrical Connection****SANYO Electric Co.,Ltd. Semiconductor Business Headquarters**

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22898HA (KT)/O3196GI/8030MH, TA, TS No.3401-1/2



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