

**FC810** 

Silicon Barrier Diode

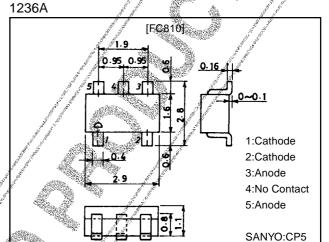
# 15V, 700mA Rectifier

#### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- · Fast reverse recorvery time (trr max=10ns) .
- · Composite type with 2 diodes contained in the CP package currently in use, saving the mounting space greatly.
- The FC810 is formed with two chips, each being equivalent to the SB07-015C, placed in one package.

### **Package Dimensions**

unit:mm



## **Specifications**

### Absolute Maximum Ratings at Ta = 25°C (Value per element)

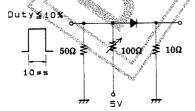
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	¥RRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	J y⊓sm ∉		17	V
Average Output Current	/ lo		700	mA
Surge Forward Current	lFSM∿	50Hz sine wave, 1 cycle	5	Α
Junction Temperature	T)		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

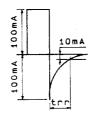
### Electrical Characteristics at Ta = 25°C (Value per element)

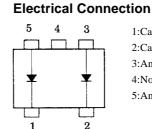
Parameter And	Symbol	Conditions	Ratings			Unit
raianielei			min	typ	max	Oilit
Reverse Voltage	V <sub>R</sub>	[R=150μA	15			V
Forward Voltage	V <sub>F</sub> //	I <sub>F</sub> =700mA			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =7.5V			20	μA
Interteminal Capacitance	/C/	V <sub>R</sub> =10V, f=1MHz		20		pF
Reverse Recovery Time	Arr	I <sub>F</sub> =I <sub>R</sub> =100mA, See specified Test Circuit			10	ns
Thermal Resistance	Ŕth (j-a)			560		°C/W

#### · Marking:810

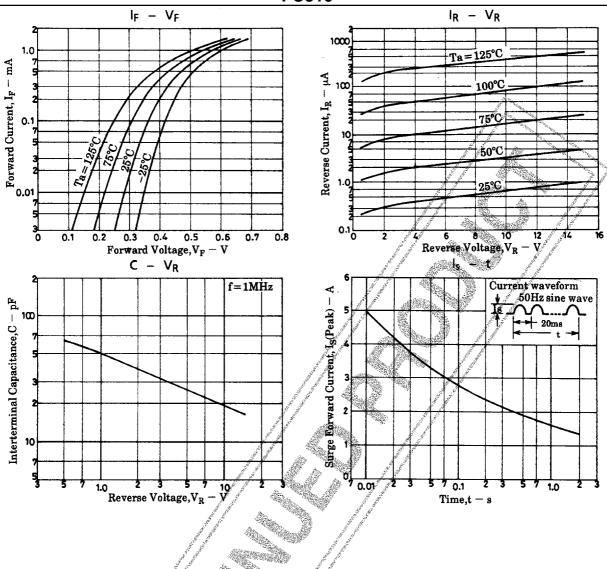
#### trr Test Circuit







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



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