Ordering number :EN4516A

FC810

Silicon Barrier Diode

15V, 700mA Rectifier

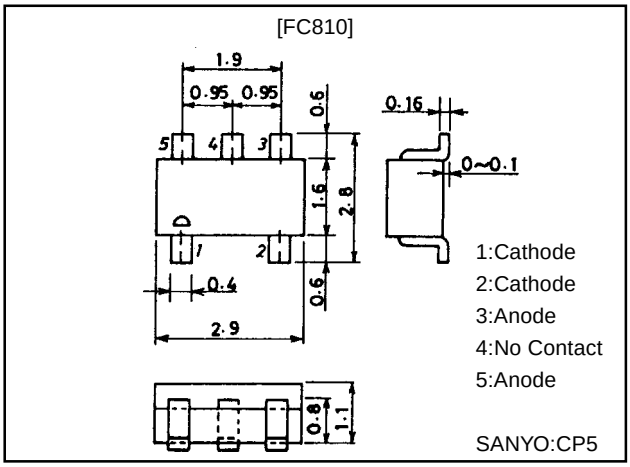
Features

- 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

1236A



Specifications

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

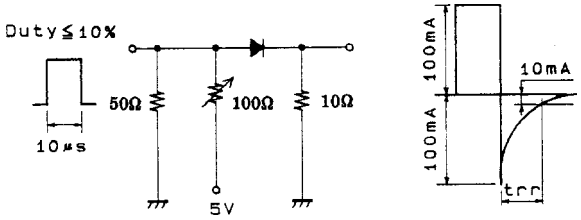
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		15	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		17	V
Average Output Current	I_O		700	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	5	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

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

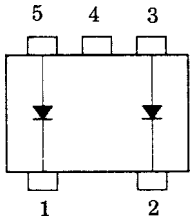
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=150μA	15			V
Forward Voltage	V_F	I_F=700mA			0.55	V
Reverse Current	I_R	V_R=7.5V			20	μA
Interteminal Capacitance	C	V_R=10V, f=1MHz		20		pF
Reverse Recovery Time	trr	I_F=I_R=100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rth (j-a)			560		˚C/W

· Marking:810

trr Test Circuit



Electrical Connection



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

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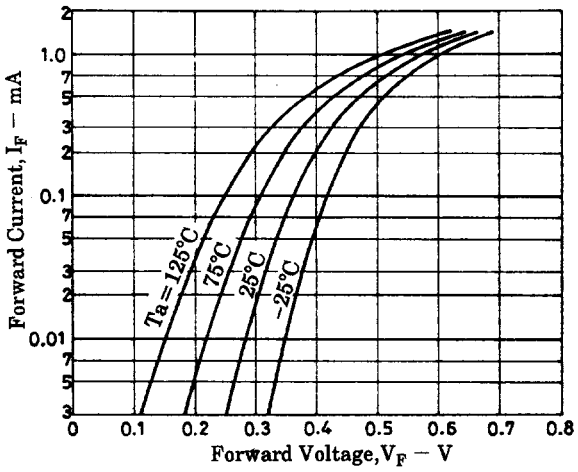
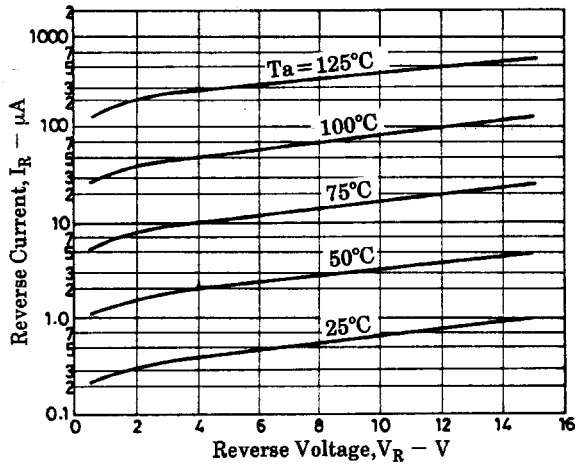
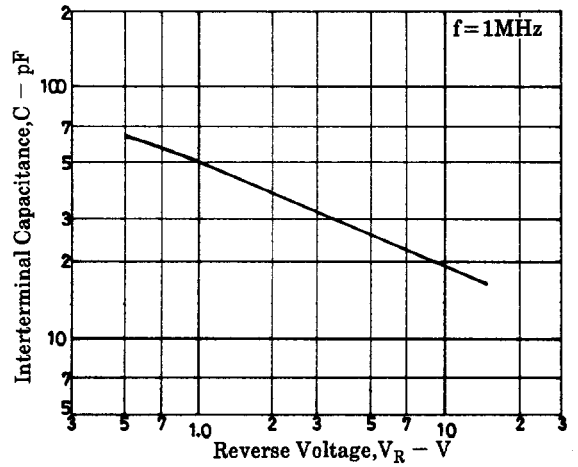
$I_F - V_F$



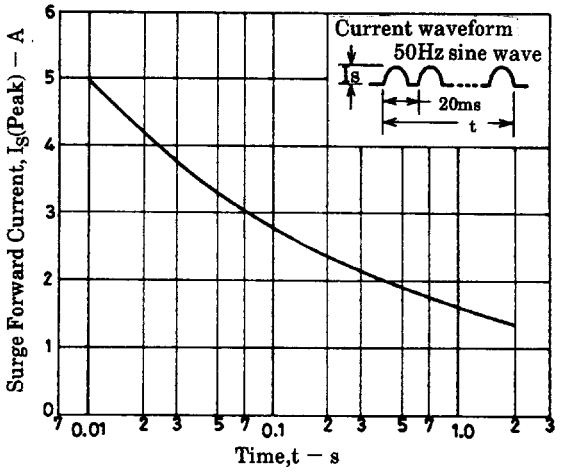
$I_R - V_R$



$C - V_R$



$I_S - t$



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