

FC809

Silicon Barrier Diode

30V, 70mA Rectifier

Applications

- · General rectification applications.
- · High frequency rectification (switching regulators, converters, choppers).

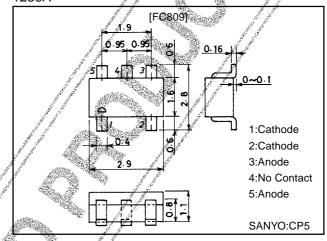
Features

- \cdot Low forward voltage (V $_F$ max=0.55V) .
- · Fast reverse recovery time (trr 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.

Package Dimensions

unit:mm

1236A



Specifications

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

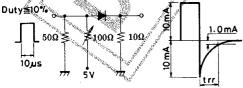
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	^V RRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	Y RSM		35	V
Average Output Current	/ lo		70	mA
Surge Forward Current	I _{FSM}	50Hz sine wave 1 cycle	2	Α
Junction Temperature	ŢŢ.		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

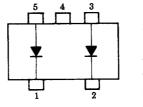
	la a la constant		Ratings			Unit
.Parameter	Symbol	Conditions	min	typ	max	
Reverse Voltage	V _R	Ι _κ =20μΑ	30			V
Forward Voltage	V _F /	I _F =70mA			0.55	V
Reverse Current	I _R (/	V _R =15V			5.0	μA
Interteminal Capacitance	/C/	V _R =10V, f=1MHz		3.0		pF
Reverse Recovery Time	trr	I _F =I _R =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rth (j-a)			560		°C/W

· Marking:809

trr Test Circuit



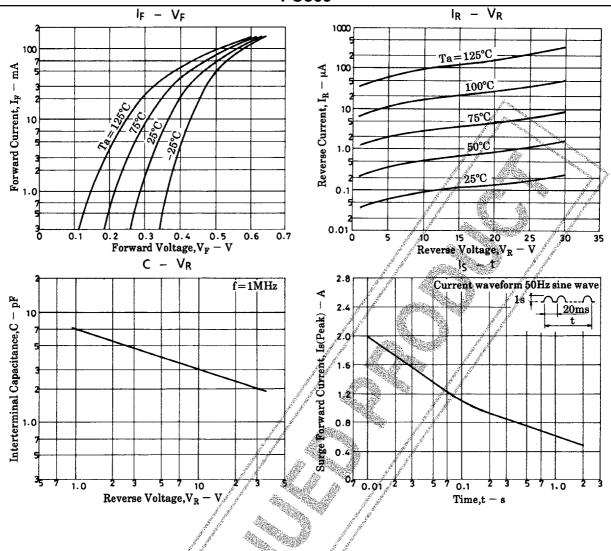
Electrical Connection



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

(Top view)

FC809



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