Ordering number :EN3908A



FC809

Silicon Barrier Diode

30V, 70mA Rectifier

Applications

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

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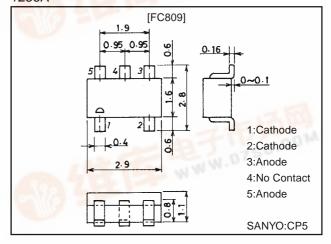
Features

- · 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)

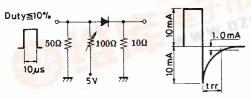
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	Io	and the Colombia	70	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	2	Α
Junction Temperature	Tj	180 / 4 6 4	-55 to +125	°C
Storage Temperature	Tstg	LEM ENVIOLE	-55 to +125	°C

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

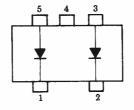
.Parameter	Symbol	Conditions		Ratings		
			min	typ	max	
Reverse Voltage	VR	I _R =20μA	30			V
Forward Voltage	V _F	I _F =70mA			0.55	V
Reverse Current	I _R	V _R =15V		1 -	5.0	μΑ
Interteminal Capacitance	С	V _R =10V, f=1MHz	- 100	3.0	-0.1	pF
Reverse Recovery Time	trr	I _F =I _R =10mA, See specified Test Circuit		M D	10	ns
Thermal Resistance	Rth (j-a)	A THE RES	- W.A.	560		°C/W

· Marking:809





Electrical Connection

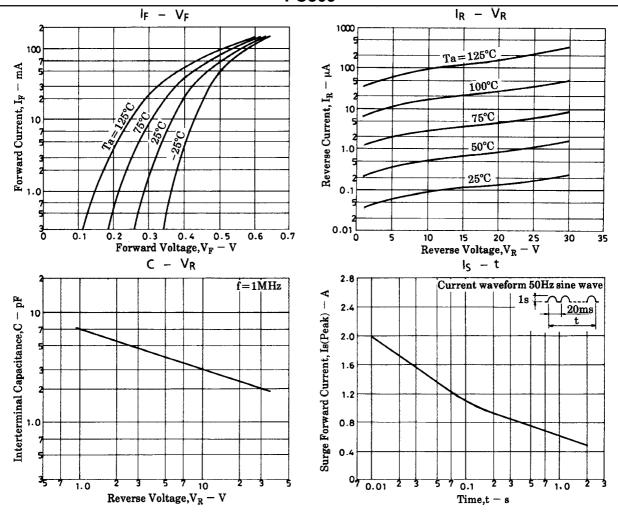


1:Cathode 2:Cathode 3:Anode

4:No

Contact 5:Anode (Top view)

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