

FC809

Silicon Barrier Diode

30V, 70mA Rectifier

Applications

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

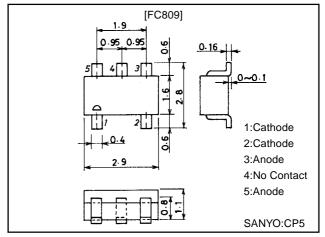
Features

- \cdot Low forward voltage (V $_F$ max=0.55 V) .
- · 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)

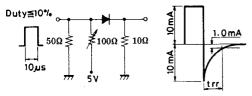
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	Io		70	mA
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	2	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

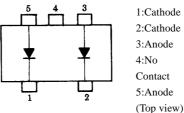
.Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	V _R	I _R =20μA	30			V
Forward Voltage	٧ _F	I _F =70mA			0.55	V
Reverse Current	IR	V _R =15V			5.0	μA
Interteminal Capacitance	С	V _R =10V, f=1MHz		3.0		pF
Reverse Recovery Time	trr	I _F =I _R =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rth (j-a)			560		°C/W

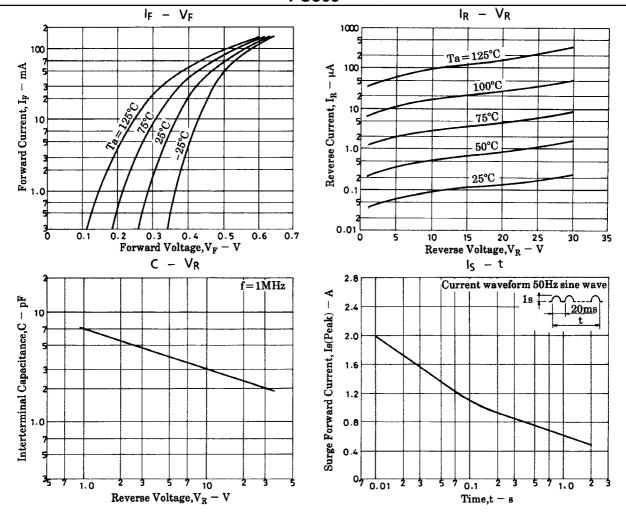
· Marking:809





Electrical Connection





- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibilty for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of February, 1998. Specifications and information herein are subject to change without notice.