

FC806

Silicon Schottky Barrier Diode

50V, 100mA Rectifier

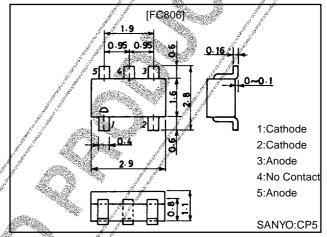
Features

- \cdot 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.
- \cdot The FC806 is formed with two chips, each being equivalent to the SB01–05CP, placed in one package.

Package Dimensions

unit:mm

1236A



Specifications

Absolute Maximum Ratings at Ta = 25°C

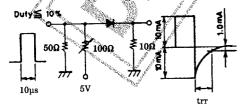
Parameter	Symbol Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM ()	50	V
Nonrepetitive Peak Reverse Surge Voltage	Y _{RSM} /	55	V
Average Output Current	/ lo	100	mA
Surge Forward Current	I _{FSM} 50MHz sine waye, 1 cycle	2	Α
Junction Temperature	\J	-55 to +125	°C
Storage Temperature	Tstg //	-55 to +125	°C

Electrical Characteristics at Ta = 25°C

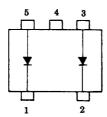
Perameter	arameter Symbol	Conditions	Ratings			Unit
Faiametei			min	typ	max	
Reverse Voltage	V _R	[κ=50μA	50			V
Forward Voltage	V _F /	I _F =100mA			0.55	V
Reverse Current	I _R	V _R =25V			15	μA
Interteminal Capacitance	/C/	V _R =10V, f=1MHz		4.4		pF
Reverse Recovery Time	trr	I _F =I _R =100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rth (j-a)			560		°C/W

· Marking:806

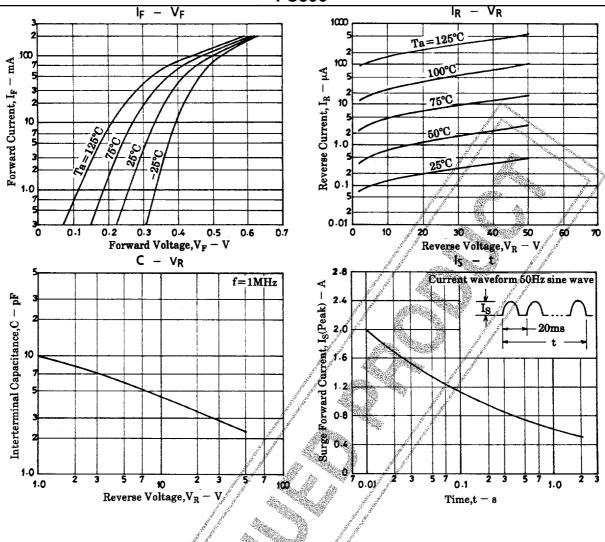
trr Test Circuit



Electrical Connection







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