

FC805

Silicon Schottky Barrier Diode

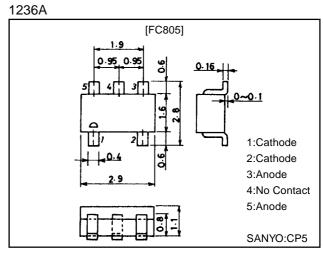
30V, 500mA Rectifier

Features

- · Low forward voltage (V_F max=0.55V).
- \cdot 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 FC805 is formed with two chips, each being equivalent to the SB05–03C, placed in one package.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

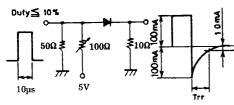
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		500	mA
Surge Forward Current	IFSM	50MHz sine wave, 1 cycle	5	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

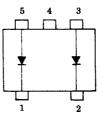
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	I _R =150μA	30			V
Forward Voltage	٧ _F	I _F =500mA			0.55	V
Reverse Current	IR	V _R =15V			30	μΑ
Interteminal Capacitance	С	V _R =10V, f=1MHz		16		pF
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rth (j-a)			560		°C/W

· Marking:805

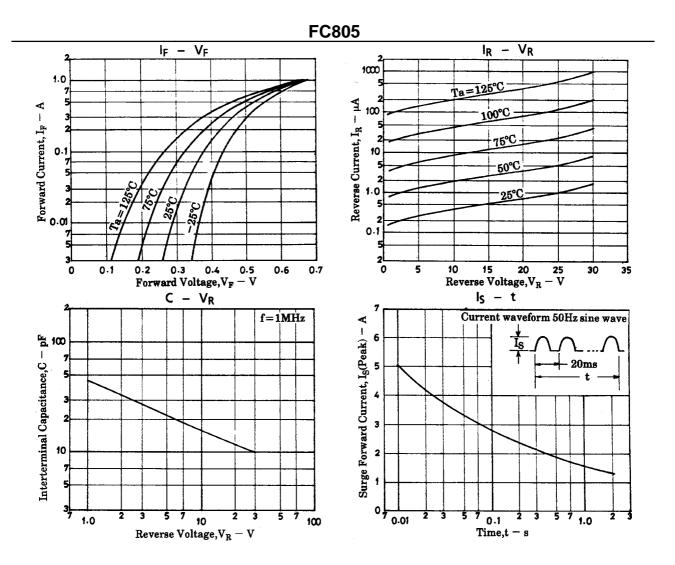
trr Test Circuit



Electrical Connection



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