

FC804

Silicon Schottky Barrier Diode

# 30V, 200mA Rectifier

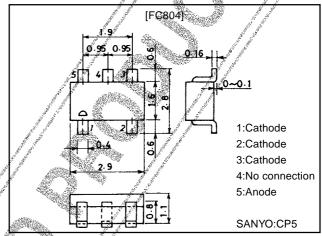
#### **Features**

- $\cdot$  Low forward voltage (V<sub>F</sub> max=0.55V) .
- · Fast reverse recorvery time (trr max=10ns).
- · Composite type with 2 diodes contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC804 is formed with two chips, each being equivalent to the SB02–03C, 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		30	V
2Nonrepetitive Peak Reverse Surge Voltage	<sup>V</sup> rsm		35	V
Average Output Current	/ lo		200	mA
Surge Forward Current	I <sub>FSM</sub>	50MHz sine wave, 1 cycle	2	Α
Junction Temperature	J) Van		-55 to +125	°C
Storage Temperature	Tstg	<b>*</b> / /	-55 to +125	°C

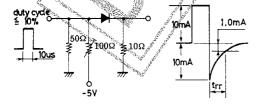
#### Electrical Characteristics at Ta = 25°C

Parameter		Symbol	Conditions	Ratings			Unit	
Faiaii	Farameter			Conditions	min	typ	max	Offic
Reverse Voltage	///		VR	Ί <u>ρ</u> =50μΑ	30			٧
Forward Voltage	// %	N.	VF	/Î <sub>F</sub> =200mA			0.55	V
Reverse Current	/ Jane	1000	I <sub>B</sub> /_/	V <sub>R</sub> =15V			15	μA
Interteminal Capacitance		40	ρĆ 🧷	V <sub>R</sub> =10V, f=1MHz		6.3		pF
Reverse Recovery Time	**************************************	A.	/ trr	I <sub>F</sub> =I <sub>R</sub> = (-) 10mA, See specified Test Circuit			10	ns

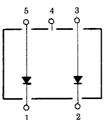
Note) The specifications shown above are for each individual diode.

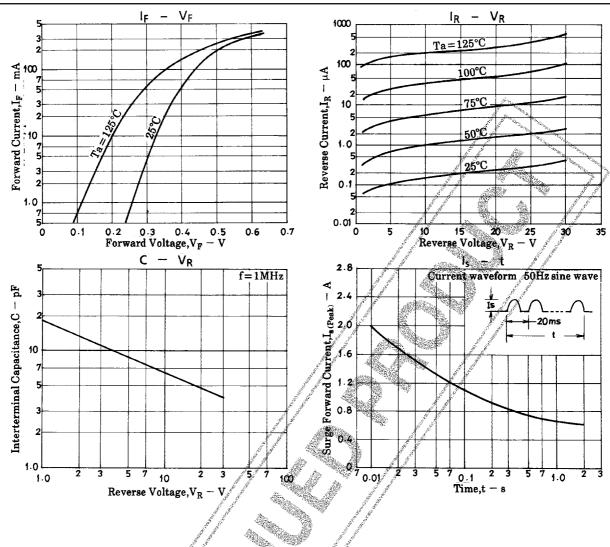
· Marking:804

#### trr Test Circuit



#### **Electrical Connection**





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