



# FC803

Silicon Schottky Barrier Diode

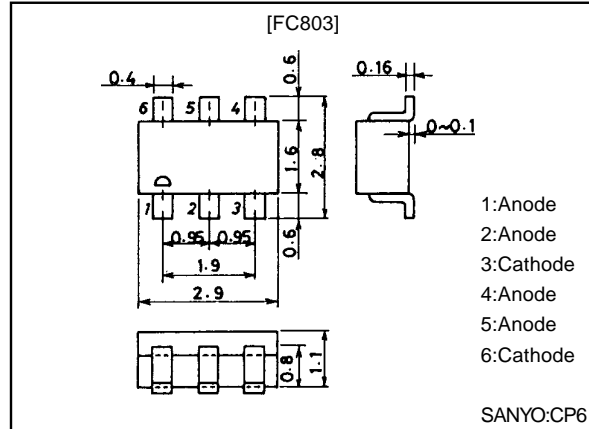
## 30V, 70mA Rectifier

### Features

- Low forward voltage ( $V_F \text{ max}=0.55\text{V}$ ).
- Fast reverse recovery time ( $t_{rr} \text{ max}=10\text{ns}$ ).
- Composite type with 4 diodes contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC803 is formed with two chips, each being equivalent to the SB007W03C, placed in one package.

### Package Dimensions

unit:mm  
1233A



### Specifications

#### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		30	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		35	V
Average Output Current	$I_O$		70	mA
Surge Forward Current	$I_{FSM}$	50MHz sine wave, 1 cycle	2	A
Junction Temperature	$T_J$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

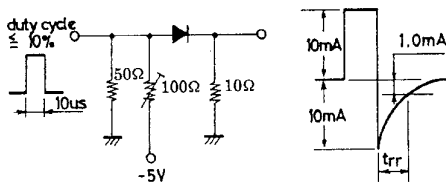
#### Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=20\mu\text{A}$	30			V
Forward Voltage	$V_F$	$I_F=70\text{mA}$			0.55	V
Reverse Current	$I_R$	$V_R=15\text{V}$			5	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=10\text{V}$ , $f=1\text{MHz}$		3.0		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R= (-) 10\text{mA}$ , See specified Test Circuit			10	ns

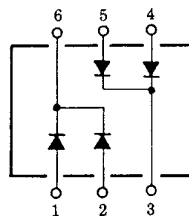
Note) The specifications shown above are for each individual diode.

· Marking:803

#### $t_{rr}$ Test Circuit



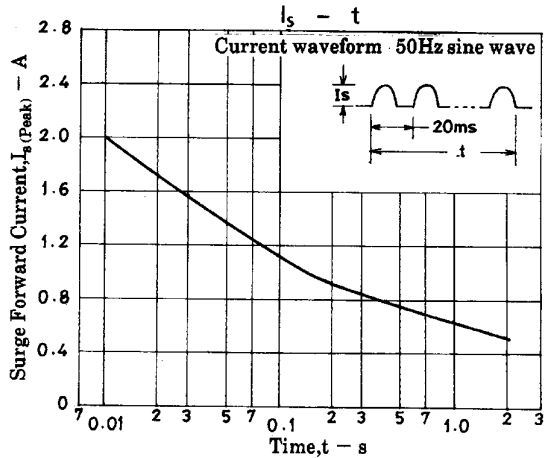
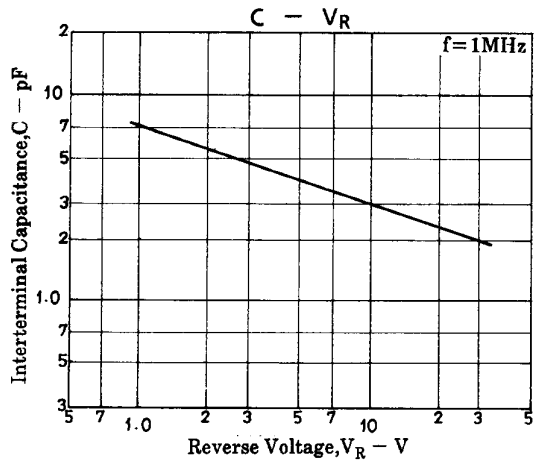
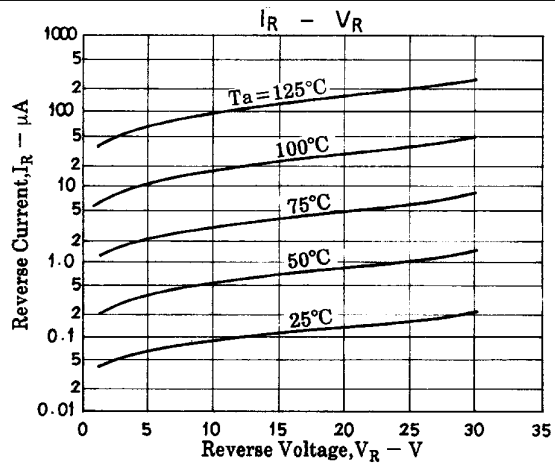
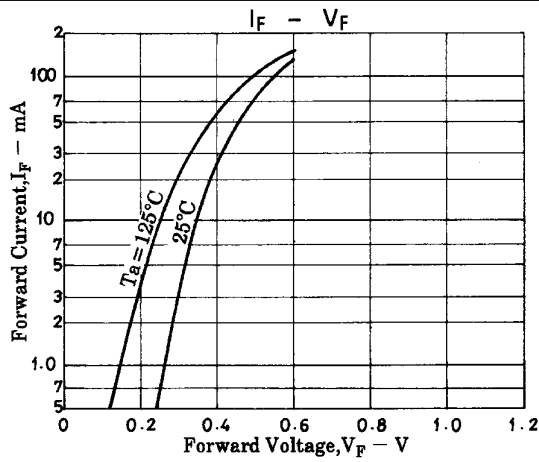
#### Electrical Connection



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