



FC805

Silicon Schottky Barrier Diode

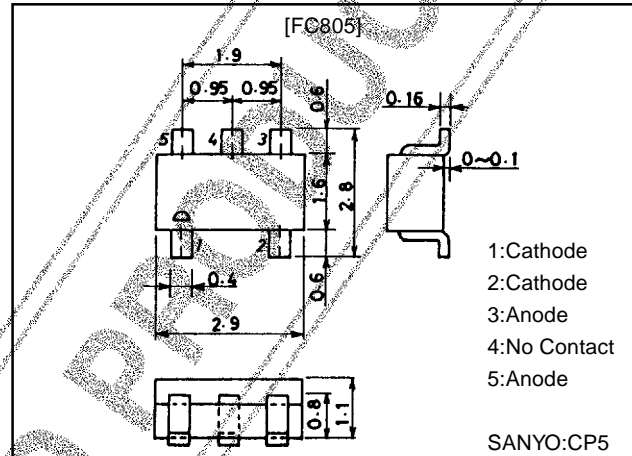
30V, 500mA Rectifier

Features

- Low forward voltage (V_F max=0.55V) .
- Fast reverse recovery time (t_{rr} max=10ns) .
- Composite type with two 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
1236A



Specifications

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

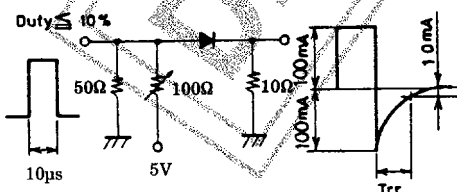
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		500	mA
Surge Forward Current	I_{FSM}	50MHz sine wave, 1 cycle	5	A
Junction Temperature	T_J		-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$ (Value per element)

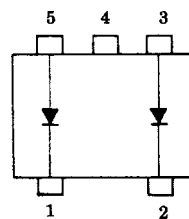
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=150\mu\text{A}$	30			V
Forward Voltage	V_F	$I_F=500\text{mA}$			0.55	V
Reverse Current	I_R	$V_R=15\text{V}$			30	μA
Interteminal Capacitance	C	$V_R=10\text{V}, f=1\text{MHz}$		16		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, See specified Test Circuit			10	ns
Thermal Resistance	$R_{th}(j-a)$			560		$^\circ\text{C/W}$

· Marking:805

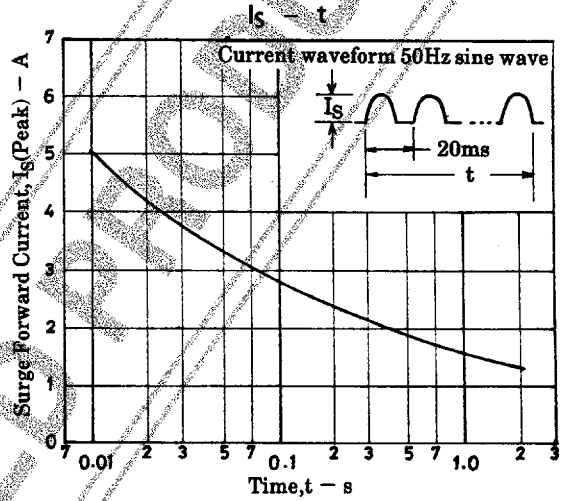
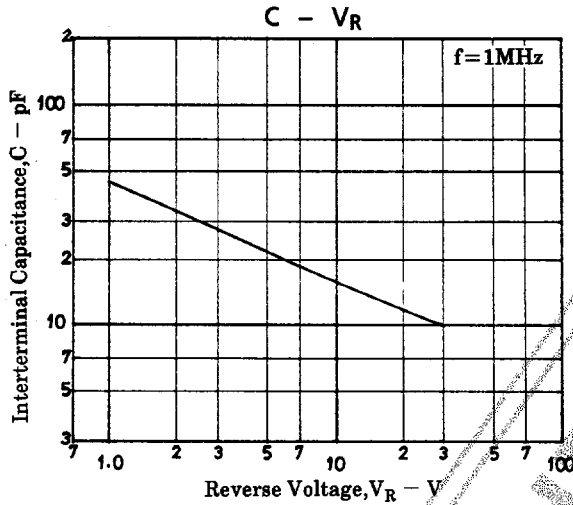
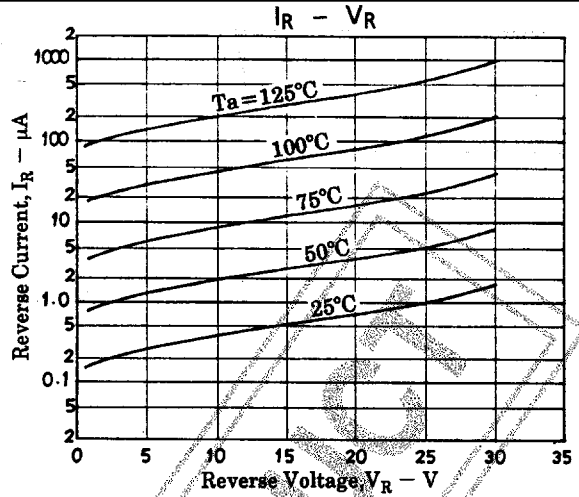
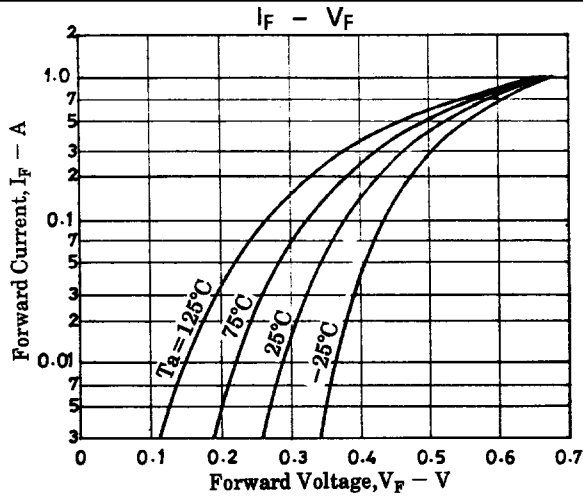
t_{rr} Test Circuit



Electrical Connection



FC805



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