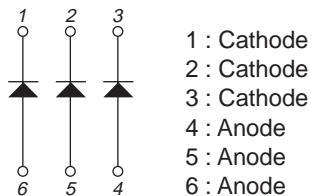


**SANYO****FC903**

Silicon Epitaxial Planar Type

**High-Speed Switching Composite Diode****Features**

- Composite type with 3 diodes contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC903 is formed with 3 chips, each being equivalent to the DSB010, placed in one package.
- High switching speed.

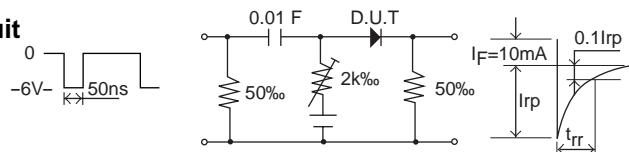
**Electrical Connection****Specifications****Absolute Maximum Ratings at Ta=25°C**

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V <sub>RM</sub>		85	V
Reverse Voltage	V <sub>R</sub>		80	V
Peak Forward Current	I <sub>FM</sub>		300	mA
Average Rectified Current	I <sub>O</sub>		100	mA
Surge Forward Current	I <sub>FSM</sub>	1μs	4	A
Allowable Power Dissipation	P	Total value	300	mW
Junction Temperature	T <sub>j</sub>		125	°C
Storage Temperature	T <sub>stg</sub>		- 55 to + 125	°C

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

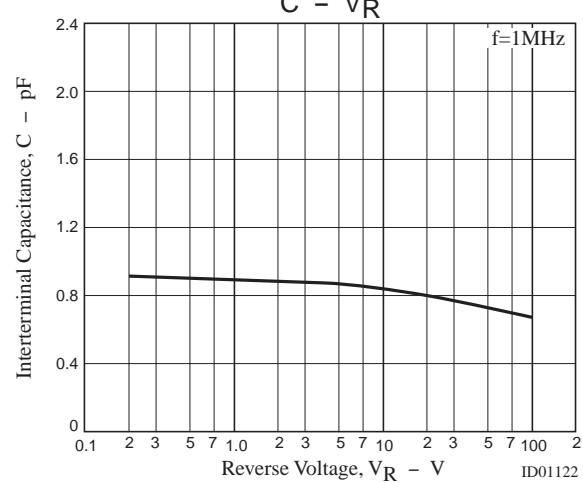
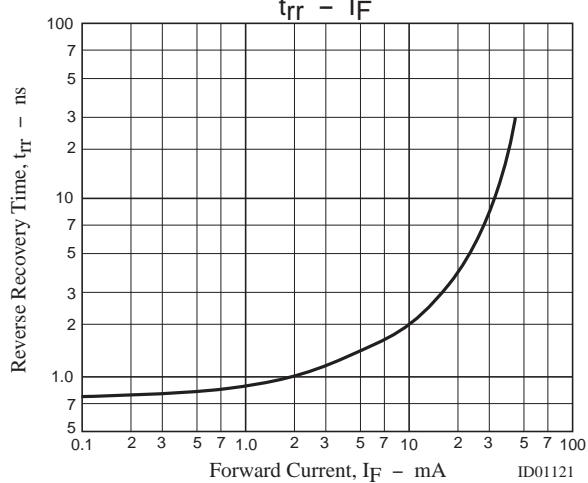
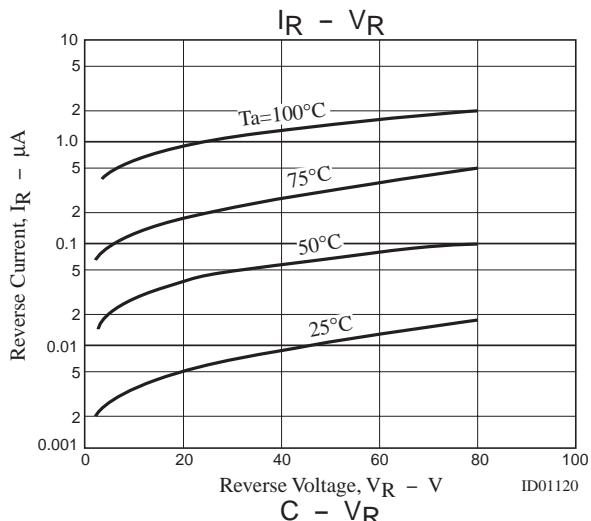
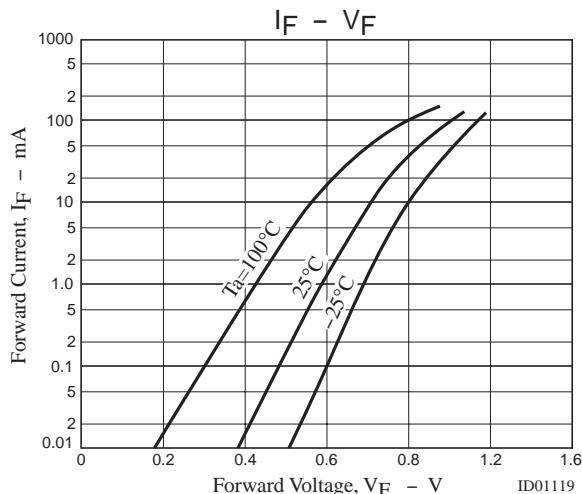
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V <sub>F1</sub>	I <sub>F</sub> =1mA		0.60		V
	V <sub>F2</sub>	I <sub>F</sub> =10mA		0.72		V
	V <sub>F3</sub>	I <sub>F</sub> =100mA		1.2		V
Reverse Current	I <sub>R1</sub>	V <sub>R</sub> =30V		0.1		μA
	I <sub>R2</sub>	V <sub>R</sub> =80V		0.5		μA
Interterminal Capacitance	C	V <sub>R</sub> =0, f=1MHz		3.0		pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =10mA, V <sub>R</sub> =6V, R <sub>L</sub> =50Ω, I <sub>rp</sub> =0.1I <sub>rp</sub>		4.0		ns

Note : The specifications shown above are for each individual diode. Marking : 903

**t<sub>rr</sub> Test Circuit**

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