Ordering number:EN3869A

FC903

Silicon Epitaxial Planar Type

High-Speed Switching Composite Diode

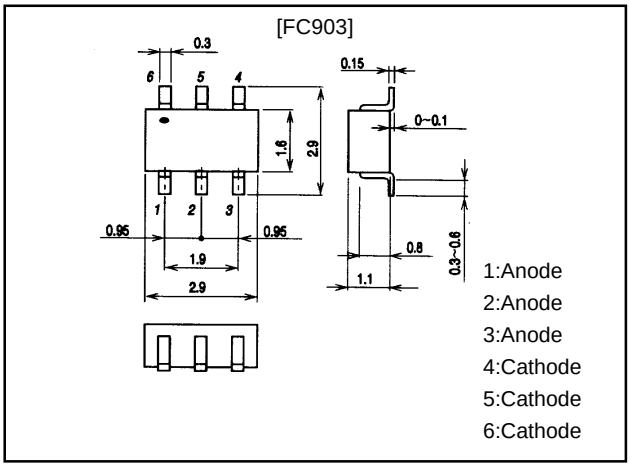
Features

- 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.

Package Dimensions

unit:mm

1288



Specifications

Absolute Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		85	V
Reverse Voltage	V_R		80	V
Peak Forward Current	I_{FM}		300	mA
Average Rectified Current	I_O		100	mA
Surge Forward Current	I_{FSM}	1μs	4	A
Allowable Power Dissipation	P	Total value	300	mW
Junction Temperature	Tj		125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

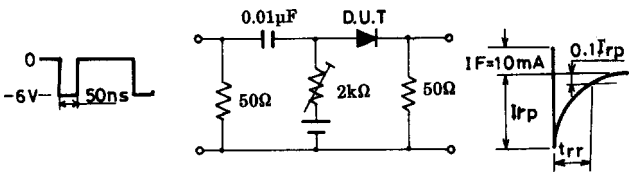
Electrical Characteristics at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F1	I_F=1mA		0.60		V
	V_F2	I_F=10mA		0.72		V
	V_F3	I_F=100mA			1.2	V
Reverse Current	I_R1	V_R=30V			0.1	μA
	I_R2	V_R=80V			0.5	μA
Interterminal Capacitance	C	V_R=0V, f=1MHz			3.0	pF
Reverse Recovery Time	t_{rr}	I_F=10mA, V_R=6V, R_L=50Ω, I_{rr}=0.1Irp			4.0	ns

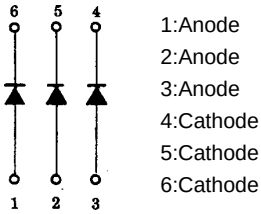
Note:The specifications shown above are for each individual diode.

Marking : 903

t_{rr} Test Circuit

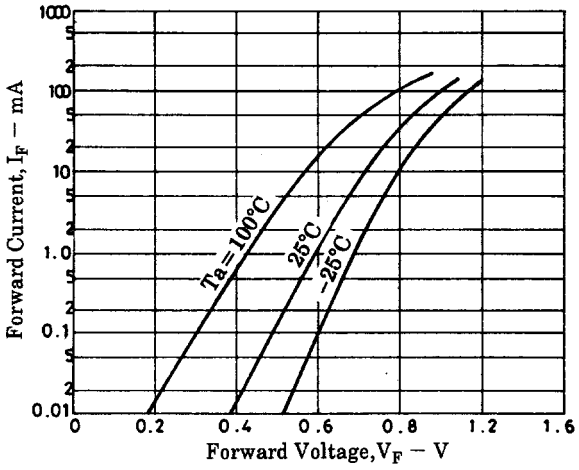


Electrical Connection

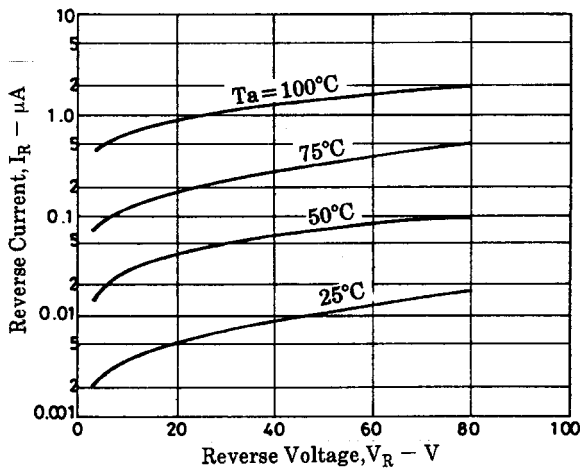


SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquarters
TOKYO OFFICE, Tokyo Bldg., 1-10 , Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

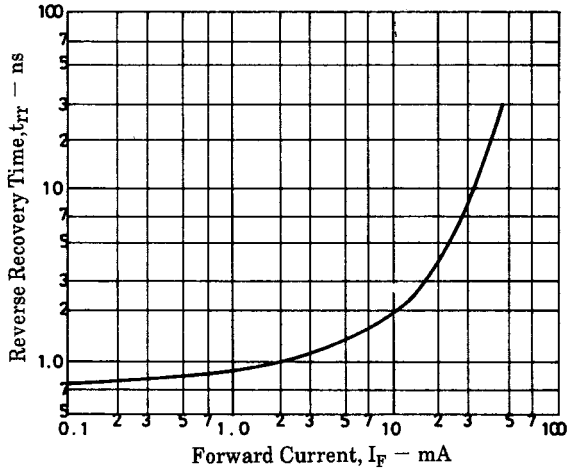
$I_F - V_F$



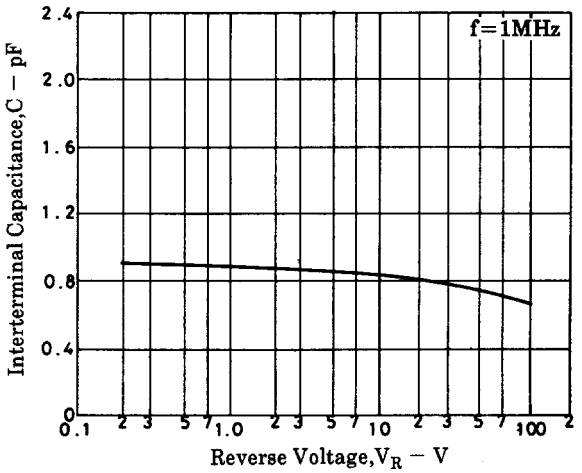
$I_R - V_R$



$t_{rr} - I_F$



$C - V_R$



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