



DCF015

Silicon Epitaxial Planar Type (Anode Common)

High-Speed Switching Diode

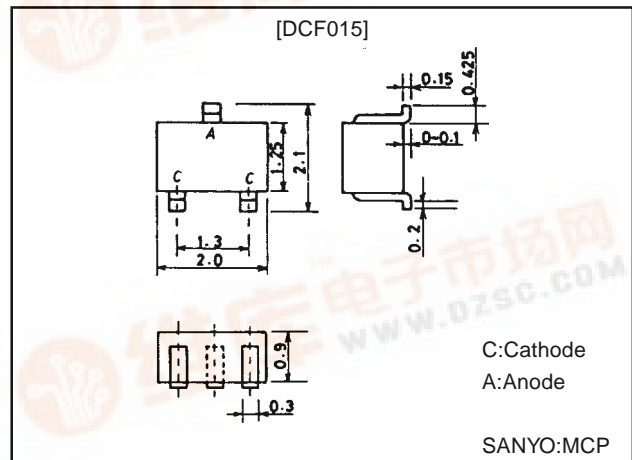
Features

- Very small-sized package permitting DCF015-applied sets to be made small and slim.
- Fast switching speed.
- Twin type, anode common.

Package Dimensions

unit:mm

1196



Specifications

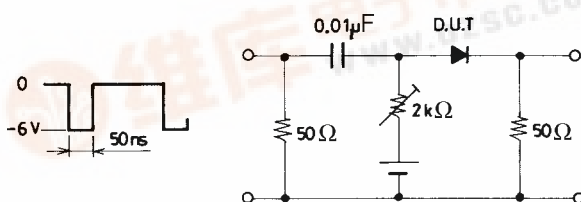
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		75	V
Reverse Voltage	V_R		50	V
Surge Current	I_{FSM}	1μs	4	A
Average Rectified Current	I_O	Unit rating	100	mA
		Total rating	150	mA
Peak Forward Current	I_{FM}	Unit rating	300	mA
		total rating	450	mA
Junction Temperature	T_j		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

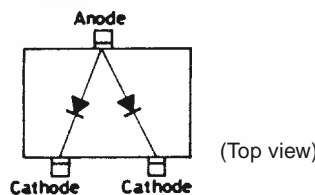
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_{F1}	$I_F=10mA$		0.72	1.0	V
		$I_F=50mA$		0.82	1.0	V
		$I_F=100mA$		0.88	1.2	V
Reverse Current	I_R	$V_R=50V$			100	nA
Interterminal Capacitance	C	$V_R=0V, f=1MHz$		4.5	9	pF
Reverse Recovery Time	t_{rr}	$I_F=10mA, V_R=6V, R_L=50\Omega, I_{rr}=0.1I_p$			8	ns

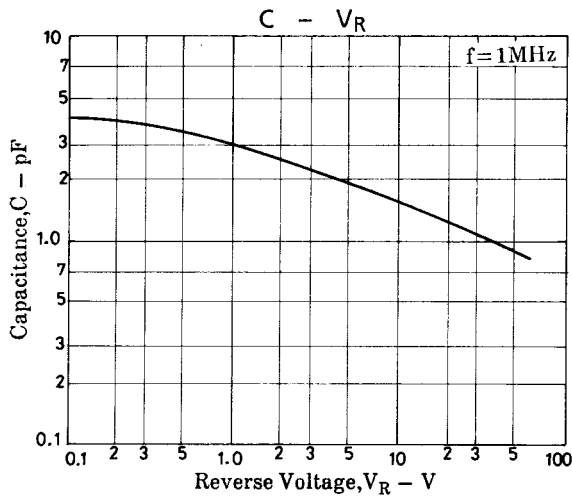
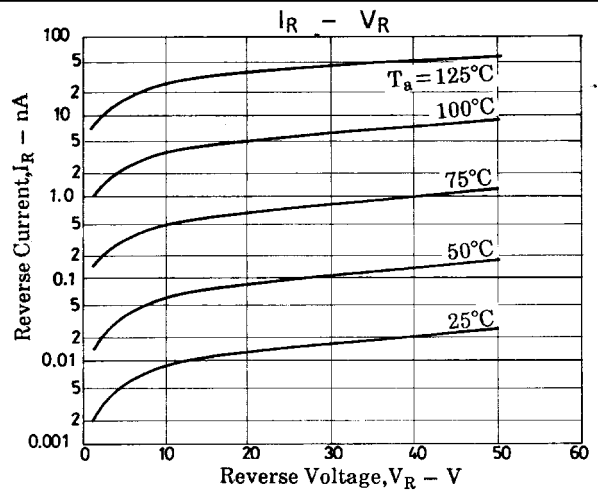
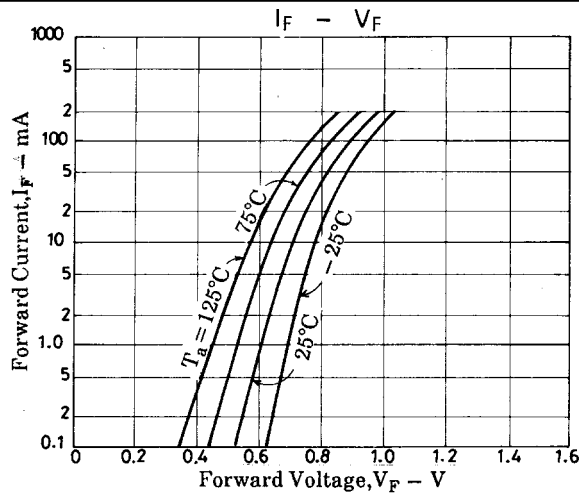
Reverse Recovery Time Test Circuit



Electrical Connection



DCF015



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