



DCG015

Silicon Epitaxial Planar Type (Cathode Common)

High-Speed Switching Diode

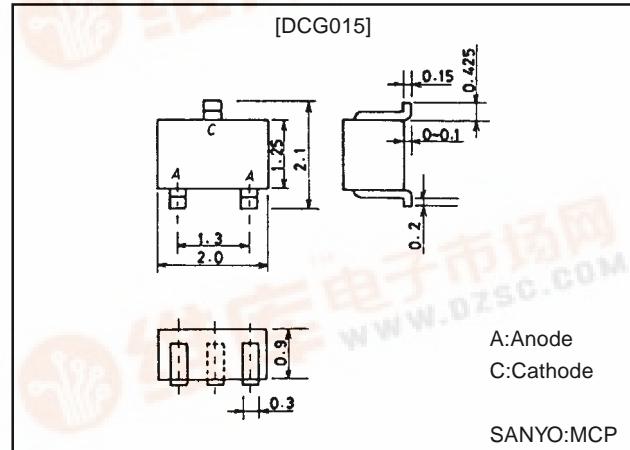
Features

- Very small-sized package permitting DCG015-applied sets to be made small and slim.
- Fast switching speed.
- Twin type, anode common.

Package Dimensions

unit:mm

1198



Specifications

Absolute Maximum Ratings at Ta = 25°C

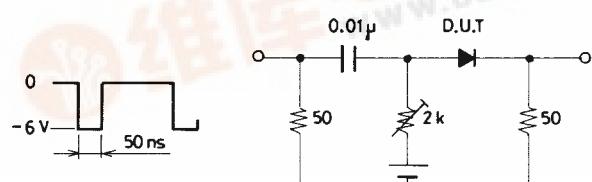
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V _{RM}		75	V
Reverse Voltage	V _R		50	V
Surge Current	I _{FSM}	1μs	4	A
Average Rectified Current	I _O	Unit rating	100	mA
		Total rating	150	mA
Peak Forward Current	I _{FM}	Unit rating	300	mA
		Total rating	450	mA
Junction Temperature	T _j		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 _F	I _F =10mA		0.72	1.0	V
		I _F =50mA		0.85	1.0	V
		I _F =100mA		0.92	1.2	V
Reverse Current	I _R	V _R =50V			100	nA
Interterminal Capacitance	C	V _R =0V, f=1MHz		4.0	7.0	pF
Reverse Recovery Time	trr	I _F =10mA, V _R =6V, R _L =50Ω, I _{rr} =0.1I _{rp}			5	ns

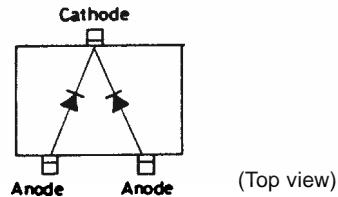
Marking:A6

Reverse Recovery Time Test Circuit



Unit (resistance:Ω, capacitance:F)

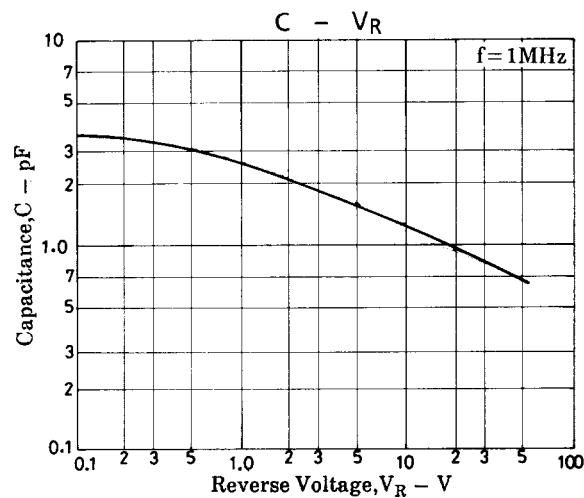
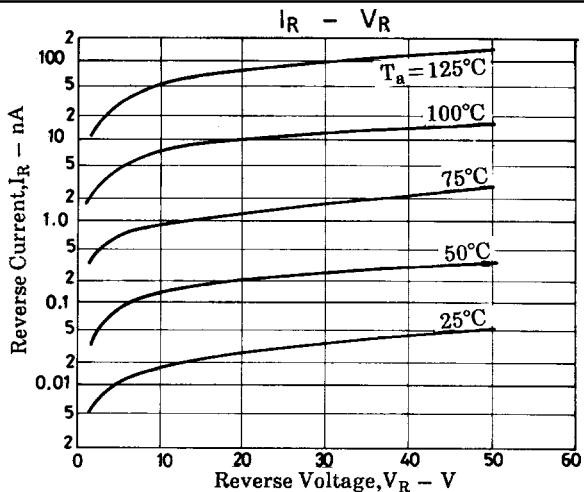
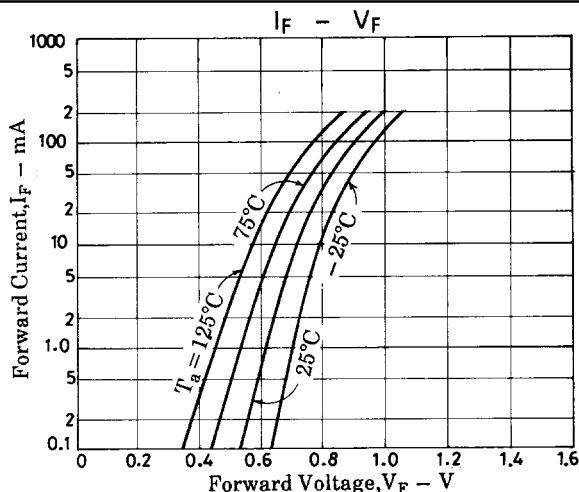
Electrical Connection



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DCG015



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