

**DSC015**

Silicon Epitaxial Planar Type

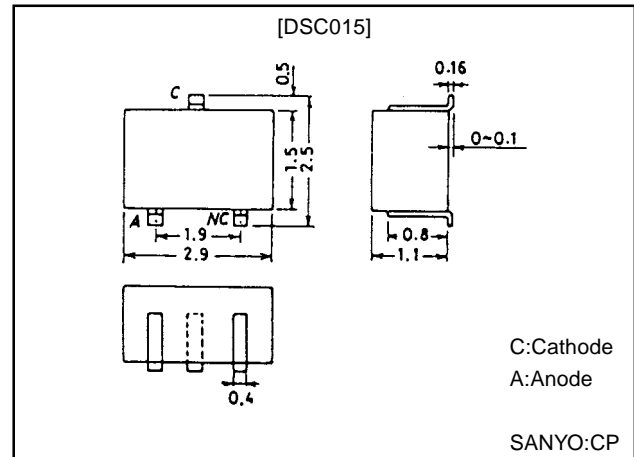
**High-Voltage Switching Diode****Features**

- Ideally suited for use in hybrid ICs because of small-sized package.
- High breakdown voltage.

**Package Dimensions**

unit:mm

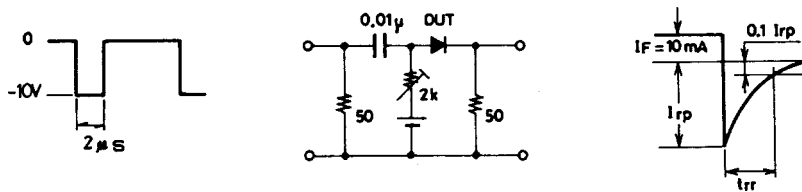
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**Specifications****Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	$V_{RM}$		250	V
Reverse Voltage	$V_R$		200	V
Surge Forward Current	$I_{FSM}$	1 $\mu$ s	3	A
Average Rectified Current	$I_O$		150	mA
Peak Forward Current	$I_{FM}$		400	mA
Allowable Power Dissipation	$P_d \text{ max}$		200	mW
Junction Temperature	$T_j$		125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

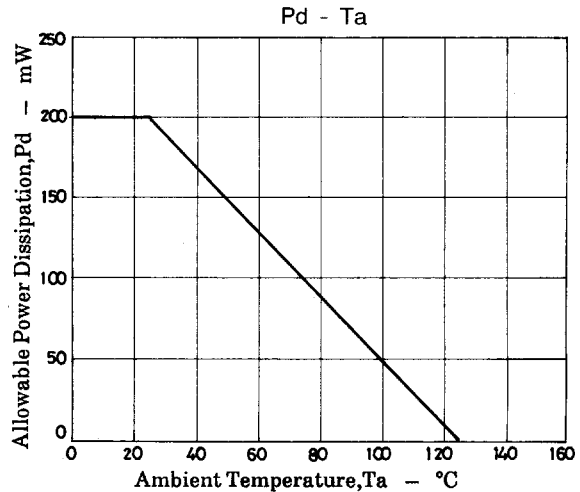
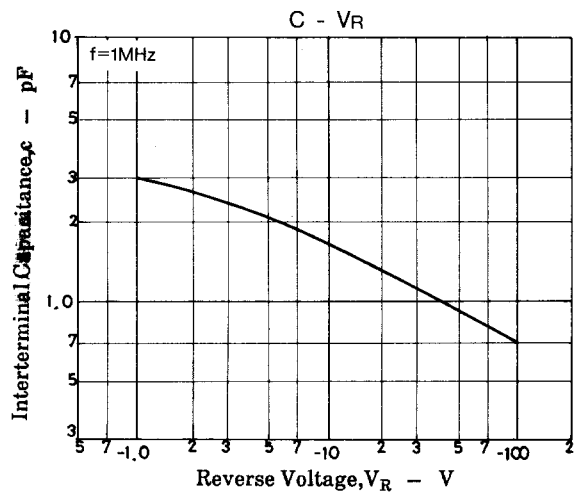
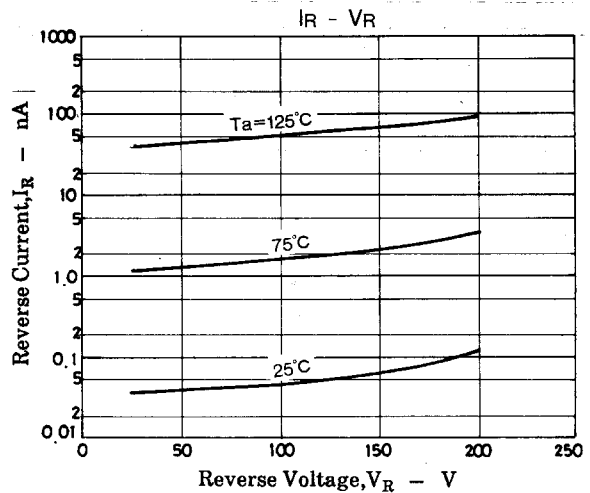
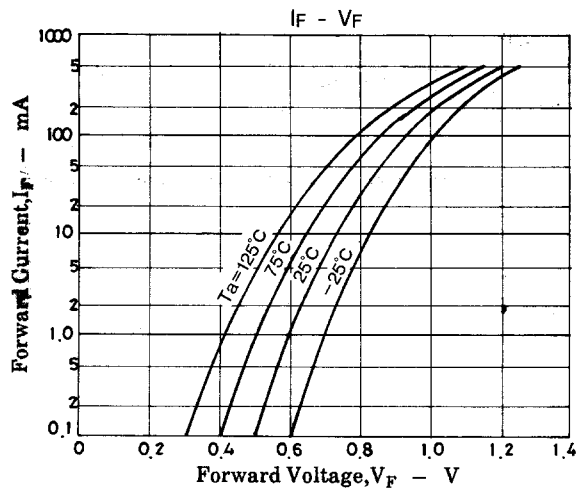
**Electrical Characteristics at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=100\text{mA}$			1.0	V
Reverse Current	$I_R$	$V_R=200\text{V}$			0.5	$\mu$ A
Interterminal Capacitance	C	$V_R=0\text{V}$ , $f=1\text{MHz}$		4		pF
Reverse Recovery Time	$t_{rr}$	$I_F=10\text{mA}$ , $V_R=10\text{V}$ , $R_L=50\Omega$ , $I_{rr}=0.1I_{rp}$		30	200	ns

**Reverse Recovery Time Test Circuit**

Unit (resistance:Ω, capacitance:F)

# DSC015



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