

**DSA015**

Silicon Epitaxial Planar Type

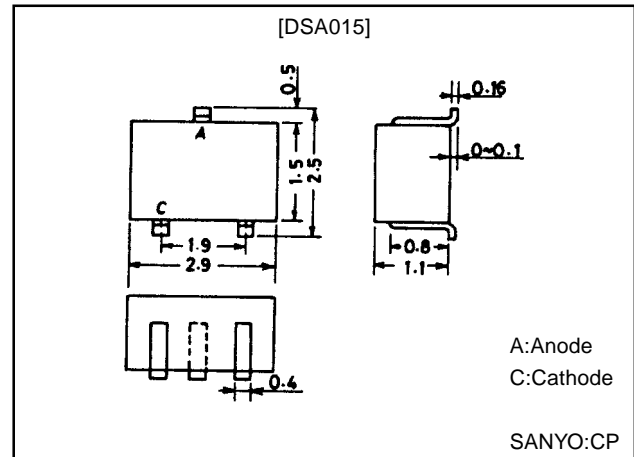
**High-Speed Switching Diode****Features**

- Ideally suited for use in hybrid ICs because of very small-sized package.
- Fast switching speed.

**Package Dimensions**

unit:mm

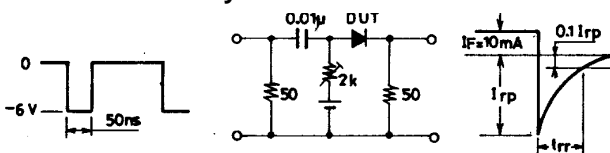
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**Specifications****Absolute Maximum Ratings at Ta = 25°C**

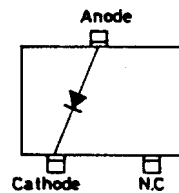
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	$V_{RM}$		75	V
Reverse Voltage	$V_R$		50	V
Surge Current	$I_{FSM}$	1 $\mu$ s	4	A
Average Rectified Current	$I_O$		150	mA
Peak Forward Current	$I_{FM}$		300	mA
Junction Temperature	$T_j$		125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=10\text{mA}$		0.75	1.0	V
		$I_F=50\text{mA}$		0.85	1.0	V
		$I_F=100\text{mA}$			1.2	V
Reverse Current	$I_R$	$V_R=50\text{V}$			100	nA
Interterminal Capacitance	C	$V_R=0\text{V}$ , $f=1\text{MHz}$			9	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10\text{mA}$ , $V_R=6\text{V}$ , $R_L=50\Omega$ , $I_{rr}=0.1I_{rp}$			8	ns
Rated Input/Output Frequency					12.5	MHz

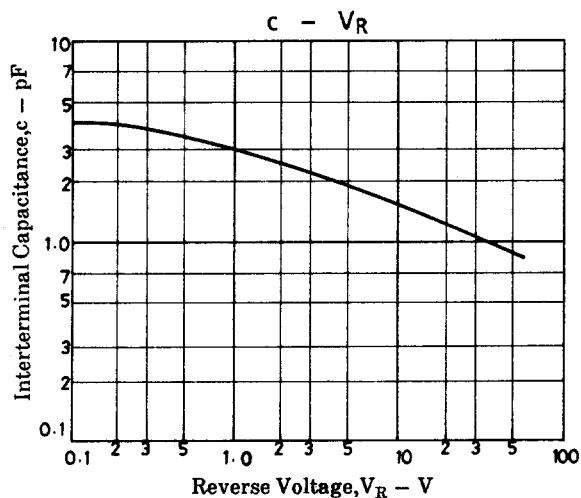
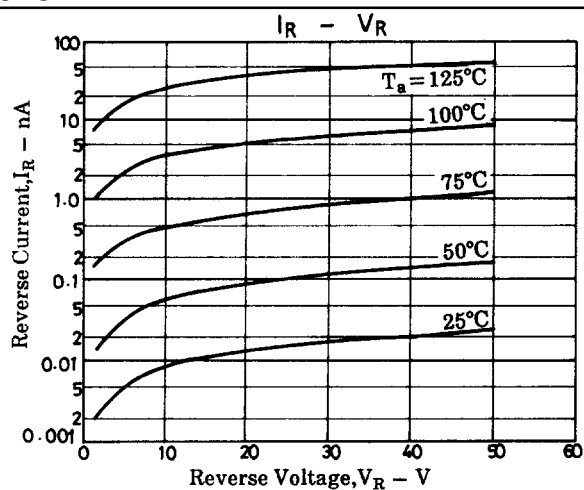
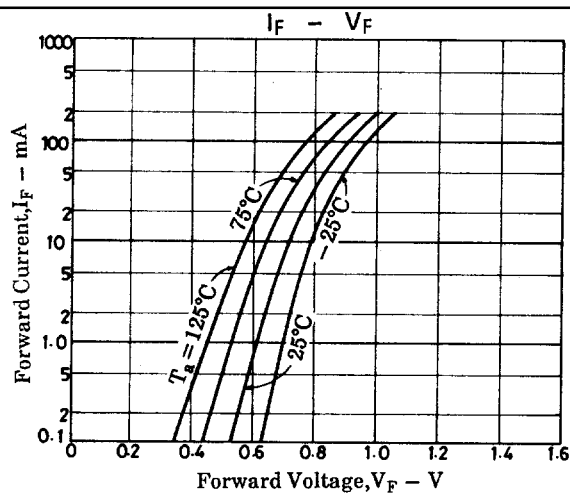
**Reverse Recovery Time Test Circuit**

Unit (resistance:Ω, capacitance : F)

**Electrical Connection**

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# DSA015



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