

**DSB015**

Silicon Epitaxial Planar Type

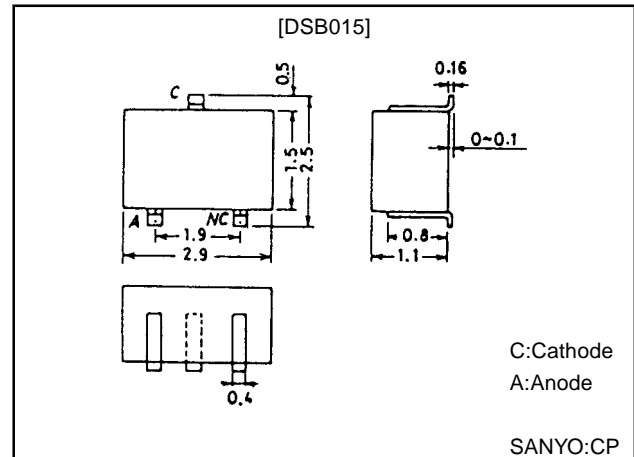
High-Speed Switching Diode**Features**

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

Package Dimensions

unit:mm

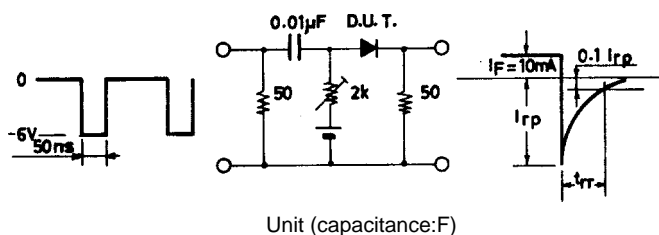
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**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

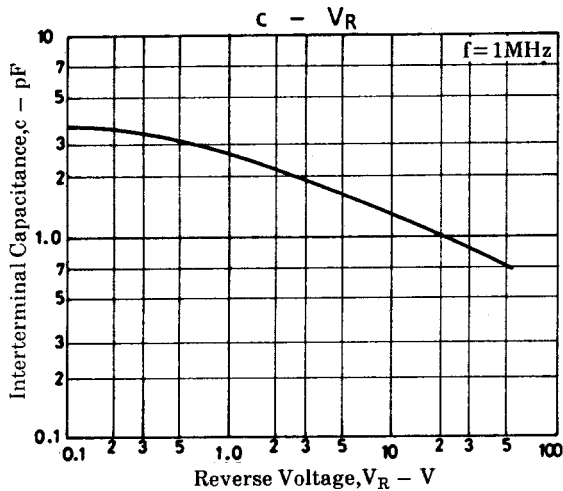
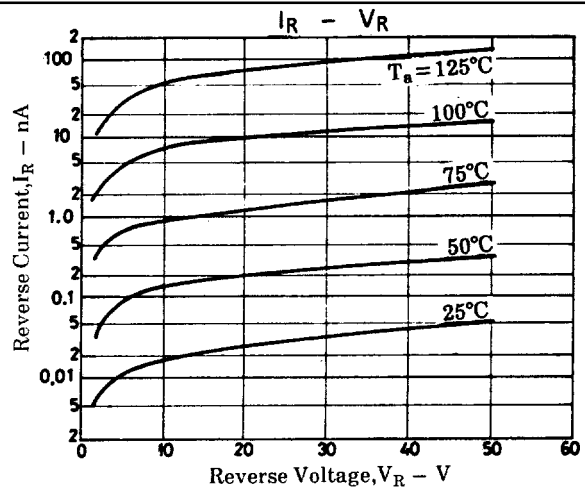
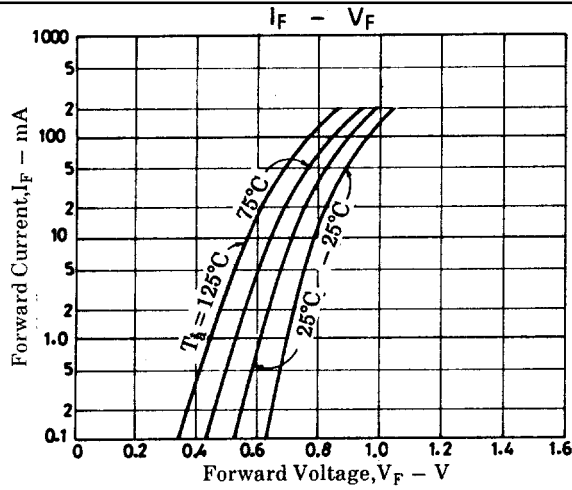
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		75	V
Reverse Voltage	V_R		50	V
Surge Current	I_{FSM}	1 μs	4	A
Average Rectified Current	I_O		150	mA
Peak Forward Current	I_{FM}		300	mA
Junction Temperature	T_J		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

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	$V_R=0\text{V}$, $f=1\text{MHz}$			7	pF
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}$, $V_R=6\text{V}$, $R_L=50\Omega$, $I_{rr}=0.1I_{rp}$			5	ns
Rated Input-Output Frequency					20	MHz

Reverse Recovery Time Test Circuit

DSB015



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