

**DSB015** 

Silicon Epitaxial Planar Type

# **High-Speed Switching Diode**

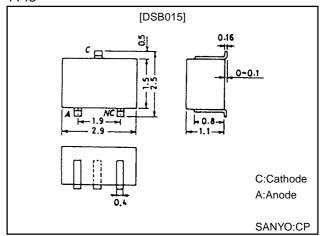
## **Features**

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

# **Package Dimensions**

unit:mm

1148



# **Specifications**

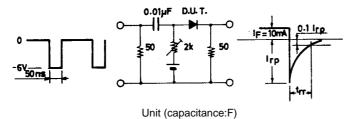
#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V <sub>RM</sub>		75	V
Reverse Voltage	٧R		50	V
Surge Current	I <sub>FSM</sub>	1 μs	4	Α
Average Rectified Current	lo		150	mA
Peak Forward Current	I <sub>FM</sub>		300	mA
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

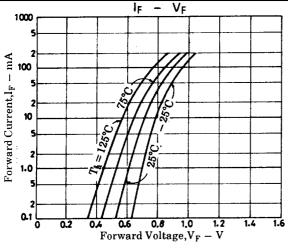
#### Electrical Characteristics at Ta = 25°C

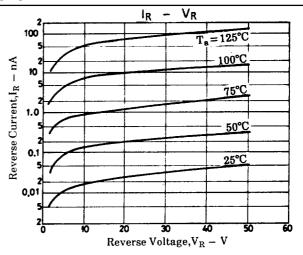
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	VF	I <sub>F</sub> =10mA		0.75	1.0	V
		I <sub>F</sub> =50mA		0.85	1.0	V
		I <sub>F</sub> =100mA			1.2	V
Reverse Current	IR	V <sub>R</sub> =50V			100	nA
Interterminal Capacitance	С	V <sub>R</sub> =0V, f=1MHz			7	pF
Reverse Recovery Time	t <sub>rr</sub>	$I_F$ =10mA, $V_R$ =6V, $R_L$ =50 $\Omega$ , $I_{rr}$ =0.1 $I_{rp}$			5	ns
Rated Input-Output Frequency					20	MHz

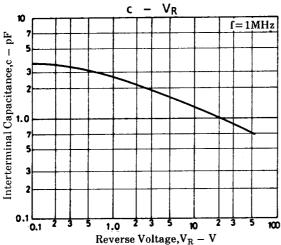
#### **Reverse Recovery Time Test Circuit**



## **DSB015**







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