

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1SS311

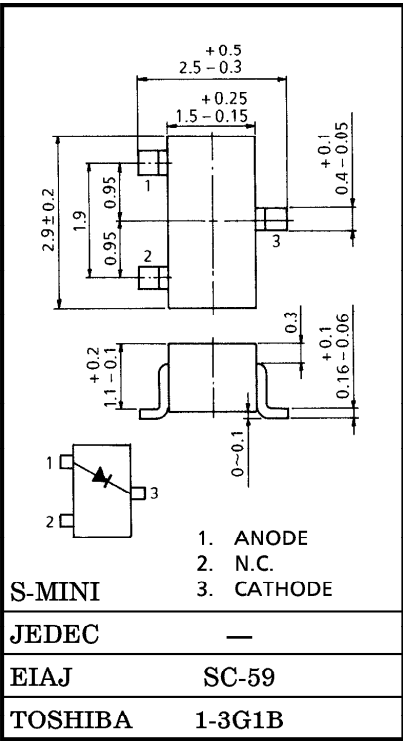
HIGH VOLTAGE, HIGH SPEED SWITCHING APPLICATIONS.

Unit in mm

- Low Forward Voltage : $V_F=0.94V$ (Typ.)
- High Voltage : $V_R=400V$ (Min.)
- Fast Reverse Recovery Time : $t_{rr}=1.5\mu s$ (Typ.)
- Small Total Capacitance : $C_T=3.2pF$ (Typ.)
- Small Package : SC-59

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	420	V
Reverse Voltage	V_R	400	V
Maximum (Peak) Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Surge Current (10ms)	I_{FSM}	2	A
Power Dissipation	P	150	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	-55~125	°C



S-MINI

JEDEC

EIAJ

TOSHIBA

1. ANODE

2. N.C.

3. CATHODE

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SC-59

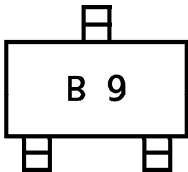
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Weight : 0.012g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

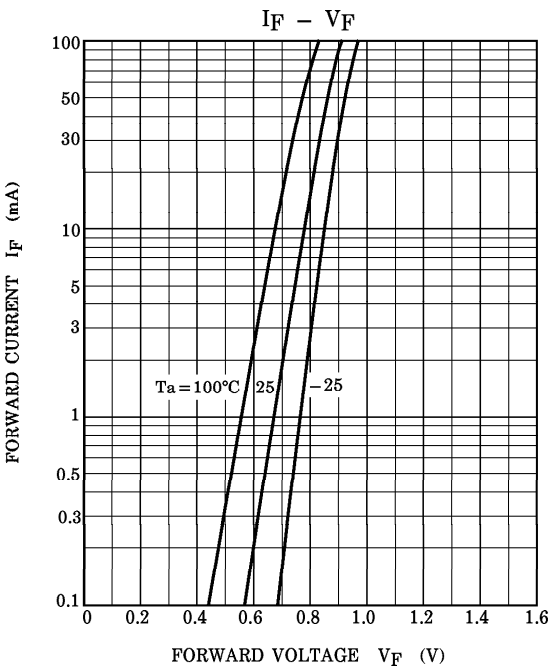
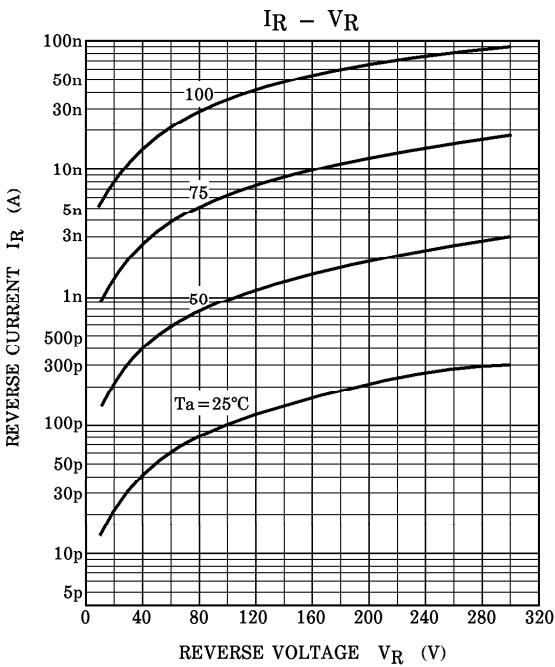
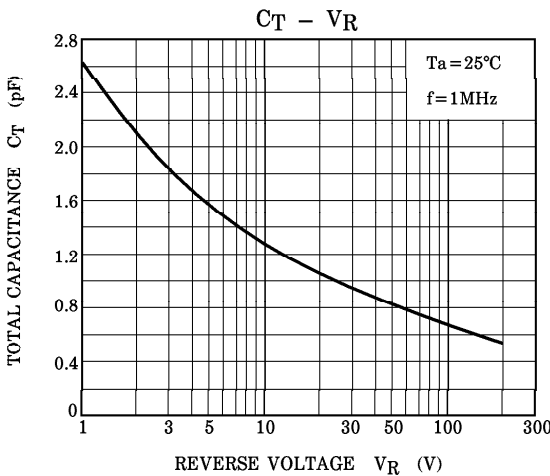
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F(1)$	$I_F=10mA$	—	0.80	—	V
	$V_F(2)$	$I_F=100mA$	—	0.94	1.20	
Reverse Current	$I_R(1)$	$V_R=300V$	—	—	0.1	μA
	$I_R(2)$	$V_R=400V$	—	—	1.0	
Total Capacitance	C_T	$V_R=0, f=1MHz$	—	3.2	5.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10mA$	—	1.5	—	μs

MARKING



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