

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

# 1SS311

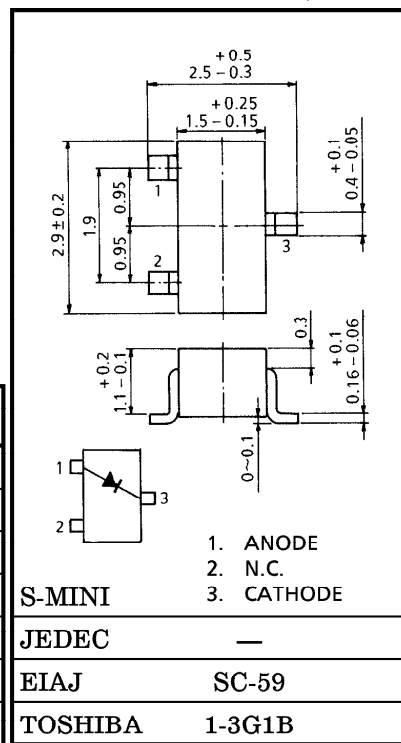
HIGH VOLTAGE, HIGH SPEED SWITCHING APPLICATIONS.

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 ( $T_a = 25^\circ C$ )

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	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55~125	$^\circ C$



S-MINI

JEDEC —

EIAJ SC-59

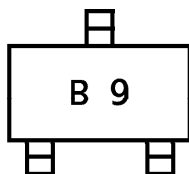
TOSHIBA 1-3G1B

Weight : 0.012g

ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

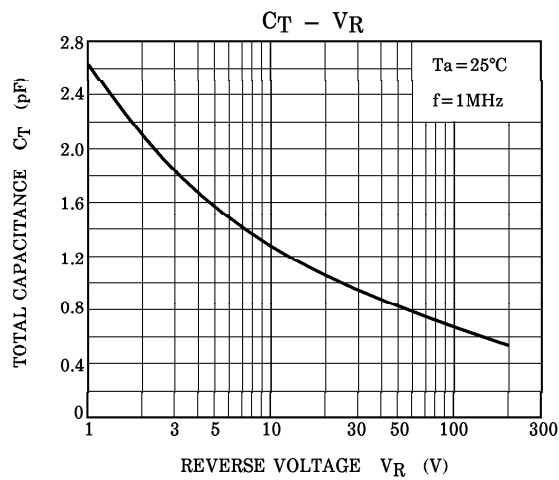
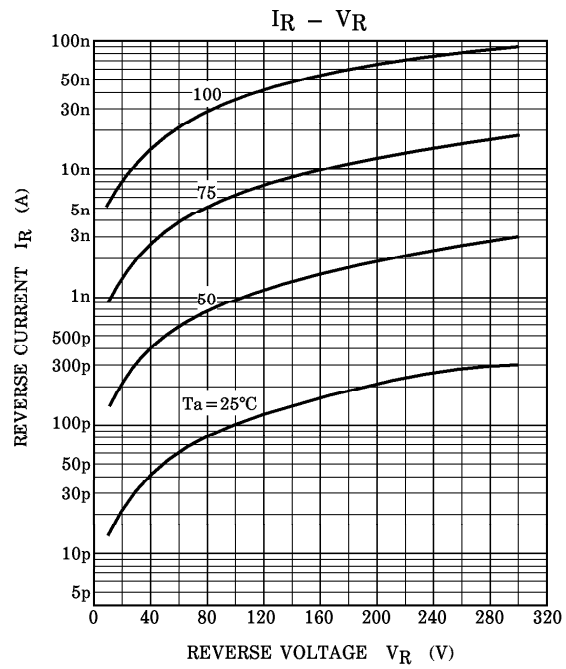
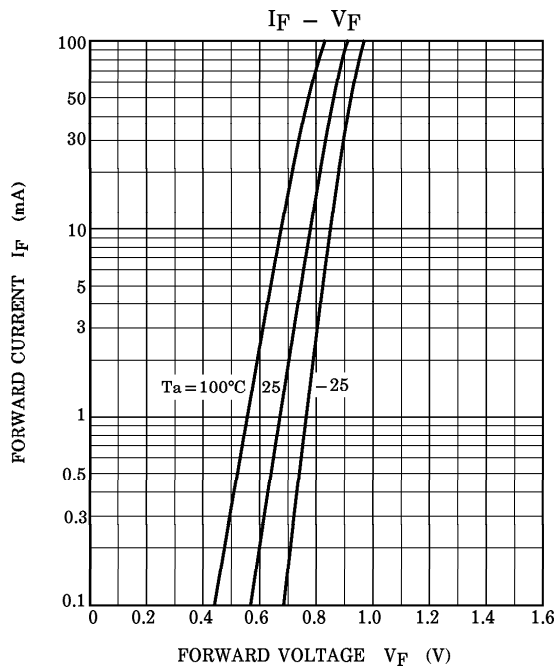
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F(1)$	$I_F=10mA$	—	0.80	—	V
	$V_F(2)$	$I_F=100mA$	—	0.94	1.20	
Reverse Current	$I_R(1)$	$V_R=300V$	—	—	0.1	$\mu A$
	$I_R(2)$	$V_R=400V$	—	—	1.0	
Total Capacitance	$C_T$	$V_R=0, f=1MHz$	—	3.2	5.0	pF
Reverse Recovery Time	$t_{rr}$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

MARKING



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