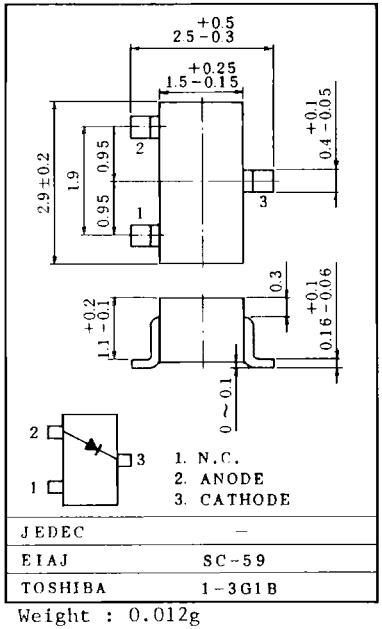
1SS250

HIGH SPEED SWITCHING APPLICATIONS.

- Low Forward Voltage : V_F=0.9V(Typ.)
- Fast Reverse Recovery Time : t_{rr}=1.6ns(Max.)
- Small Total Capacitance : C_T=1.5pF(Typ.)
- Small Package : SC-59

Unit in mm



JEDEC	—
EIAJ	SC-59
TOSHIBA	1-3G1B

Weight : 0.012g

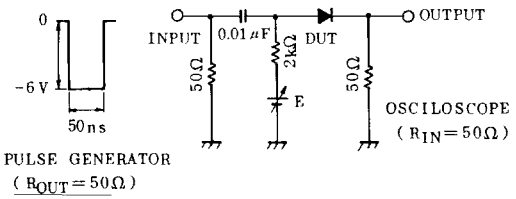
MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Reverse Voltage	V_{RM}	250	V
Reverse Voltage	V_R	200	V
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	Tj	125	°C
Storage Temperature Range	T_{stg}	-55~125	°C

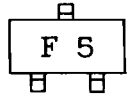
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F(1)$	I_F=10mA	-	0.72	1.0	V
	$V_F(2)$	I_F=100mA	-	0.9	1.2	
Reverse Current	$I_R(1)$	V_R=50V	-	-	0.1	μA
	$I_R(2)$	V_R=200V	-	-	1.0	
Total Capacitance	C_T	V_R=0, f=1MHz	-	1.5	3.0	pF
Reverse Recovery Time	t_{rr}	I_F=10mA, I_R=10mA R_L=100 (Fig.1)	-	10	60	ns

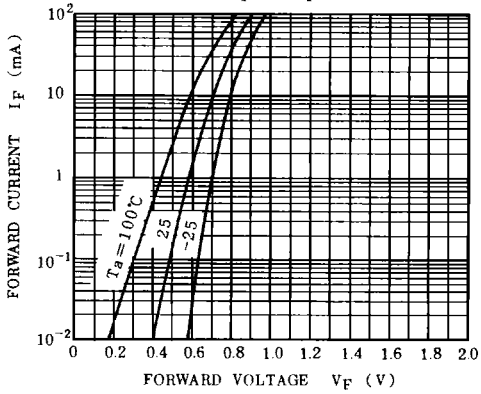
Fig. 1 REVERSE RECOVERY TIME (t_{rr}) TEST CIRCUIT



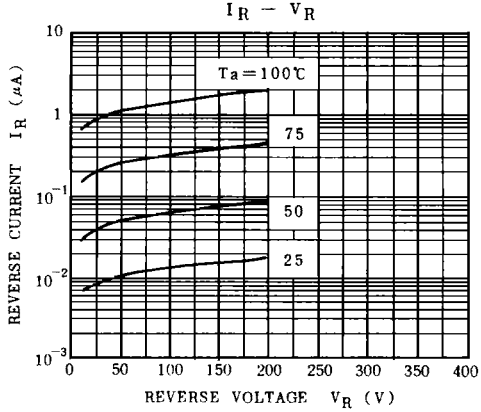
Marking



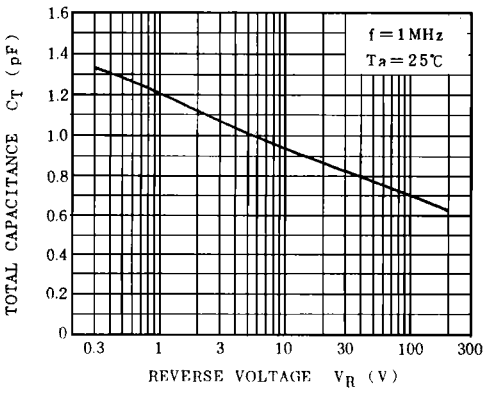
$I_F - V_F$



$I_R - V_R$



$C_T - V_R$



$t_{rr} - I_F$