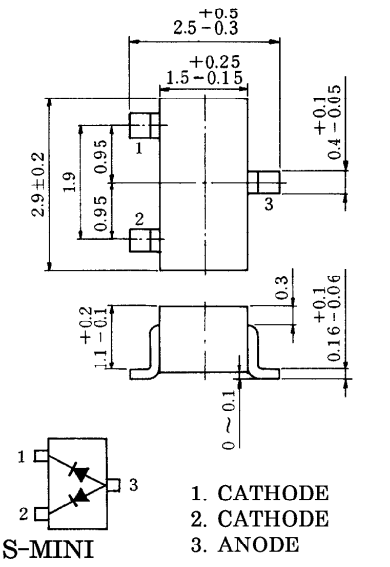
TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1SS336

ULTRA HIGH SPEED SWITCHING APPLICATION.

Unit in mm

- Small Package : SC-59
- Low Forward Voltage : $V_{F(3)}$ = 0.84V (Typ.)
- Fast Reverse Recovery Time : t_{rr} = 7ns (Typ.)
- Small Total Capacitance : C_T = 7pF (Typ.)



S-MINI

JEDEC	TO-236MOD
EIAJ	SC-59
TOSHIBA	1-3G1E

Weight : 0.012g

MAXIMUM RATINGS (Ta = 25°C)

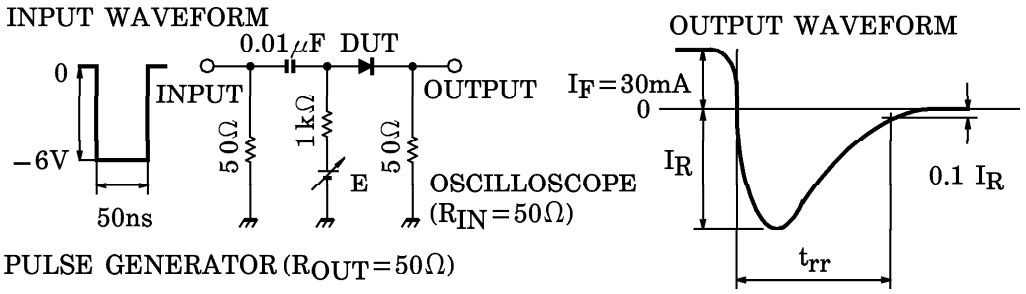
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum (Peak) Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Maximum (Peak) Forward Current	I_{FM}	600*	mA
Average Forward Current	I_O	200*	mA
Surge Current (10ms)	I_{FSM}	6*	A
Power Dissipation	P	150	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	−55~150	°C

* Unit Rating. Total Rating = Unit Rating × 1.5

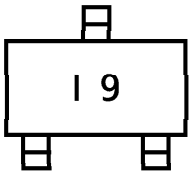
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_{F(1)}$	I_F = 10mA	—	0.64	—	V
	$V_{F(2)}$	I_F = 100mA	—	0.78	—	
	$V_{F(3)}$	I_F = 200mA	—	0.84	1.2	
Reverse Current	$I_{R(1)}$	V_R = 30V	—	—	0.25	μA
	$I_{R(2)}$	V_R = 80V	—	—	0.50	
Total Capacitance	C_T	V_R = 0, f = 1MHz	—	7	—	pF
Reverse Recovery Time	t_{rr}	I_F = 30mA, Fig.1	—	7	20	ns

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



Marking



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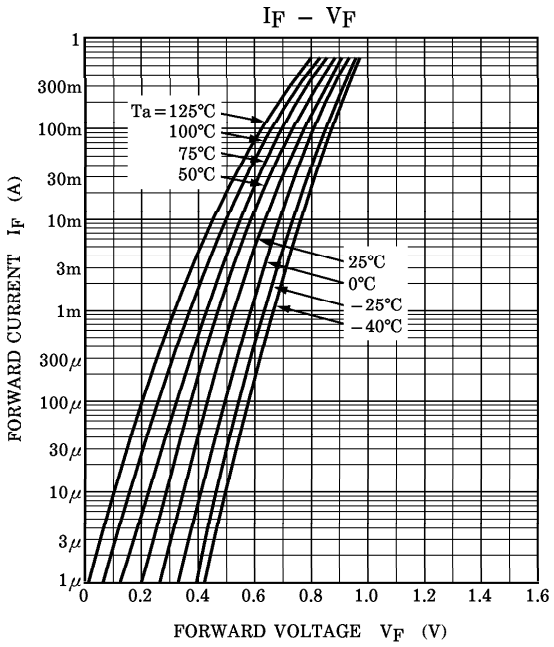

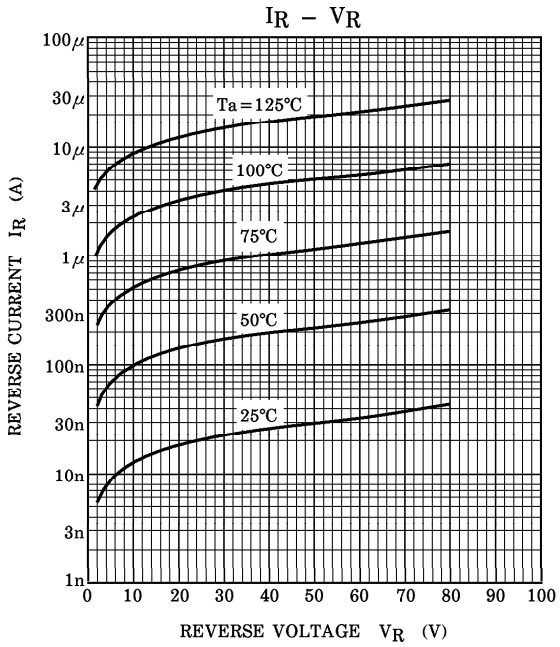

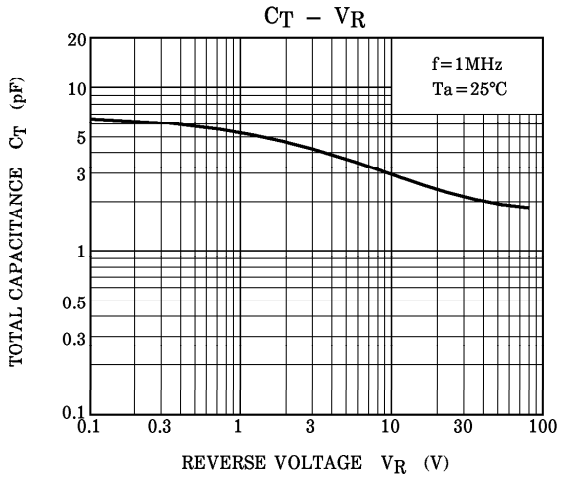

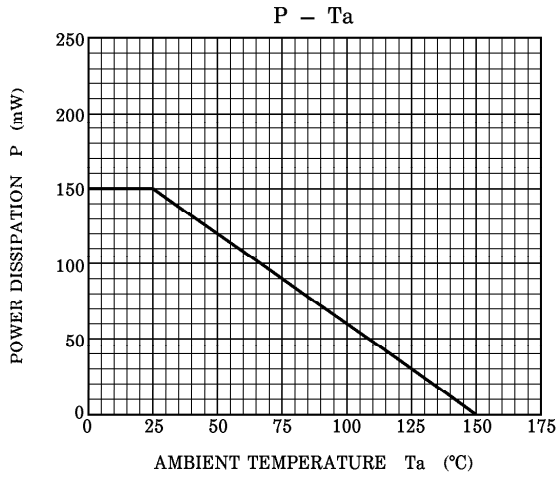

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