

1SS360

Ultra High Speed Switching Application

Unit: mm

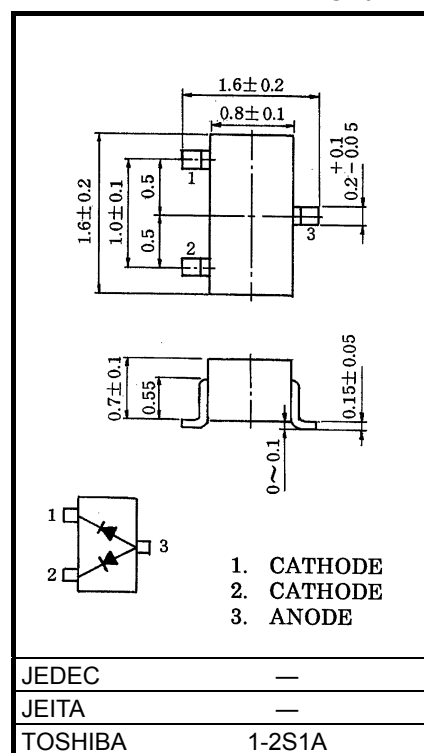
- Small package
- Low forward voltage : $V_F = 0.92V$ (typ.)
- Fast reverse recovery time: $t_{rr} = 1.6ns$ (typ.)
- Small total capacitance : $C_T = 2.2pF$ (typ.)

Absolute Maximum Ratings ($T_a = 25^\circ C$)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Maximum (peak) forward current	I_{FM}	300 *	mA
Average forward current	I_O	100 *	mA
Surge current (10ms)	I_{FSM}	2 *	A
Power dissipation	P	100	mW
Junction temperature	T_j	125	$^\circ C$
Storage temperature	T_{stg}	-55 to 125	$^\circ C$

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

* Unit rating. Total rating = unit rating $\times$ 1.5

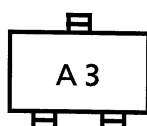


Weight: 2.4mg (typ.)

Electrical Characteristics ($T_a = 25^\circ C$)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F (1)	—	$I_F = 1mA$	—	0.61	—	V
	V_F (2)	—	$I_F = 10mA$	—	0.74	—	
	V_F (3)	—	$I_F = 100mA$	—	0.92	1.20	
Reverse current	I_R (1)	—	$V_R = 30V$	—	—	0.1	μA
	I_R (2)	—	$V_R = 80V$	—	—	0.5	
Total capacitance	C_T	—	$V_R = 0, f = 1MHz$	—	2.2	4.0	pF
Reverse recovery time	t_{rr}	—	$I_F = 10mA, Fig.1$	—	1.6	4.0	ns

Marking



Start of commercial production
1990-10

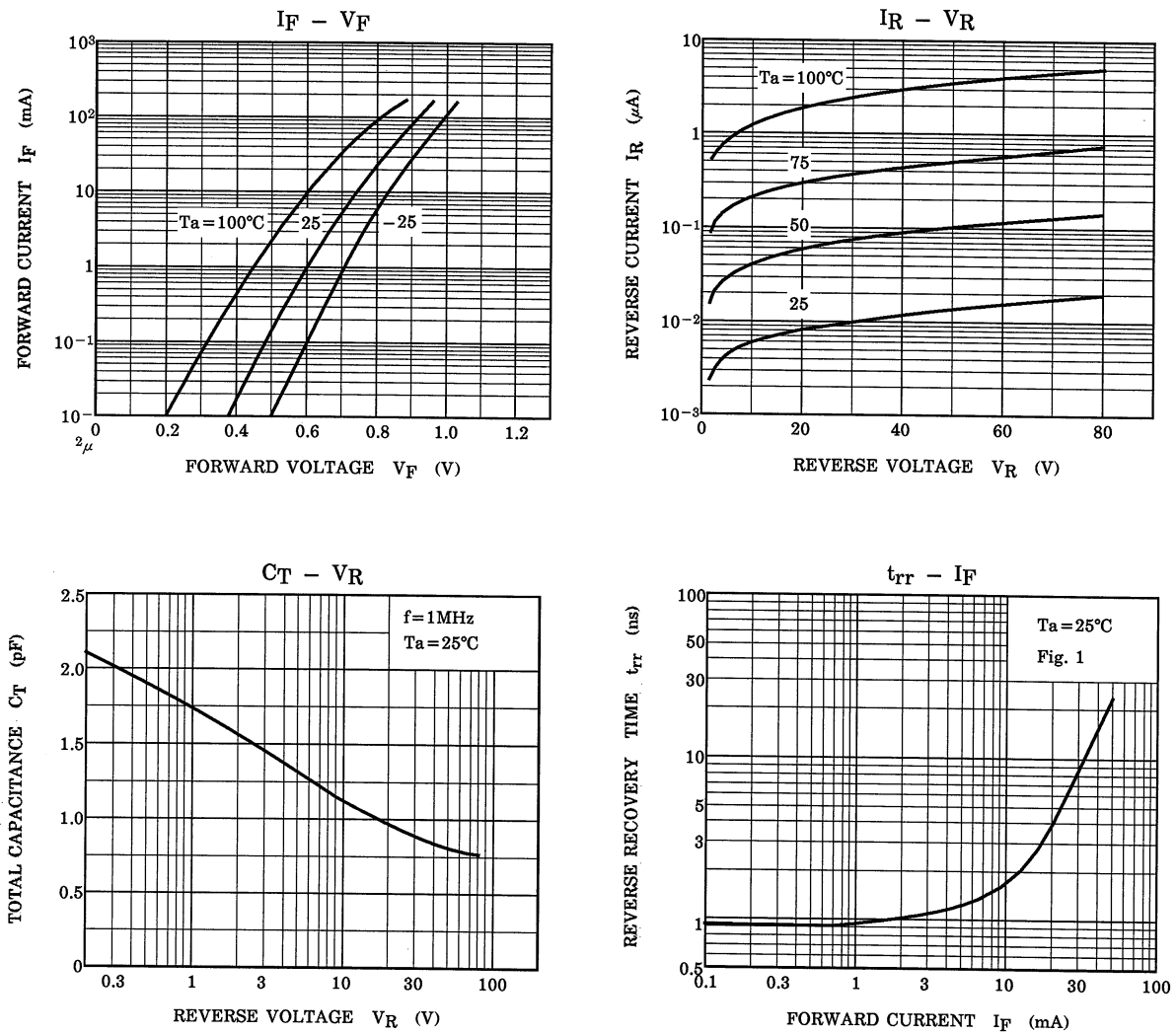
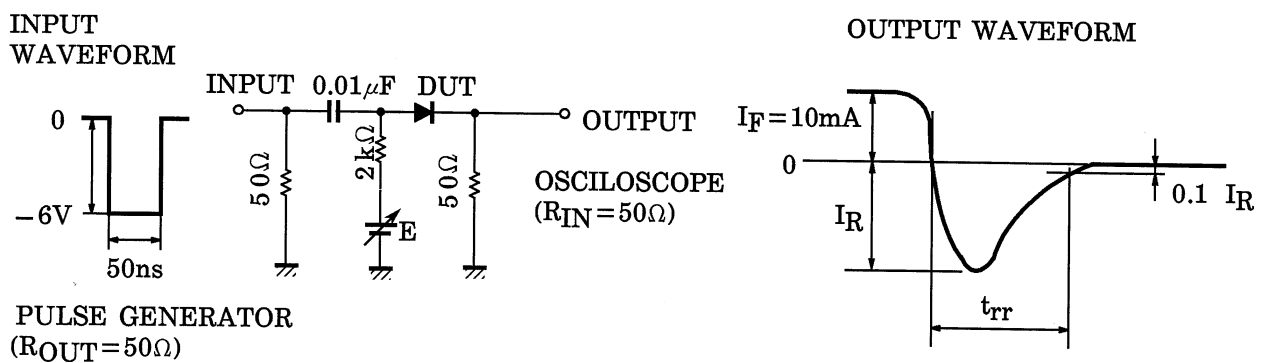


Fig.1 Reverse Recovery Time (t_{rr}) Test Circuit



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