Unit in mm

TOSHIBA Diode Silicon Epitaxial Planar Type

1SS361F

Ultra High Speed Switching Applications

• Small package : 1608 Flat lead

 Excellent in forward current and forward voltage characteristics
 V_F (3) = 0.9V (typ.)

• Fast reverse recovery time: t_{rr} = 1.6ns (typ.)

• Small total capacitance $: C_T = 0.9 pF (typ.)$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V _{RM}	85	V
Reverse voltage	V _R	80	$(/// \wedge$
Maximum (peak) forward current	I _{FM}	300 (*)	mA
Average forward current	Io	100 (*)	mA
Surge current (10ms)	I _{FSM}	2 (*)	A
Power dissipation	Р	100	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	/°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 × 1.5

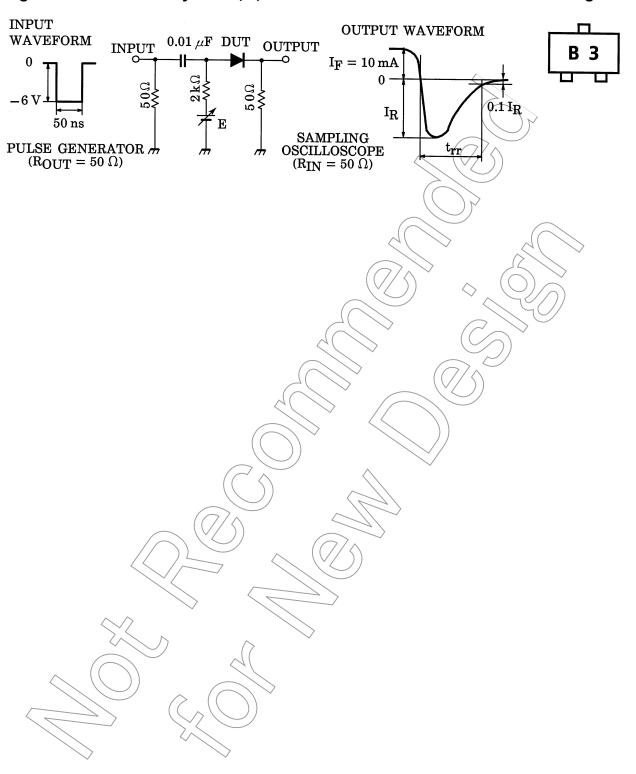
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
\sim (())	VF (1)	_	I _F = 1mA	_	0.60	_	
Forward voltage	VF (2)	_	I _F = 10mA	_	0.72	_	V
	VF (3)	_	I _F = 100mA	_	0.90	1.20	
Povorce durant	I _{R (1)}	_	V _R = 30V	_	_	0.1	
Reverse current	I _{R (2)}	_	V _R = 80V	_	_	0.5	μΑ
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	0.9	3.0	pF
Reverse recovery time	t _{rr}	_	I _F = 10mA (Fig.1)	_	1.6	4.0	ns

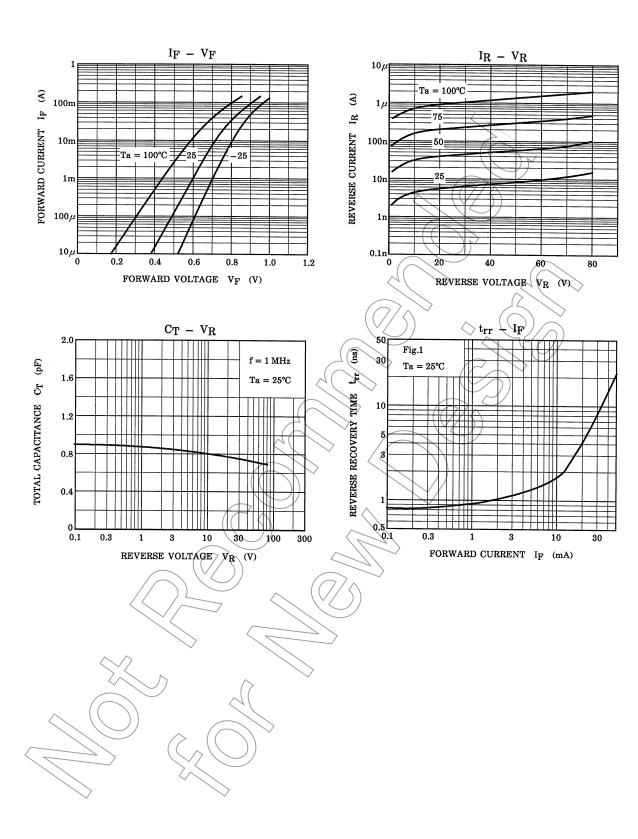
Weight: 2.3 mg (typ.)

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

Marking



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