Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

1SS361

Ultra High Speed Switching Application

• Small package

Low forward voltage : V_F = 0.9V (typ.)
 Fast reverse recovery time: t_{rr} = 1.6ns (typ.)
 Small total capacitance : C_T = 0.9pF (typ.)

Absolute 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}	300 *	mA
Average forward current	IO	100 *	mA
Surge current (10ms)	I _{FSM}	2 *	Α
Power dissipation	Р	100	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to 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).

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.60	_	٧
	V _{F (2)}	_	I _F = 10mA	_	0.72	_	
	V _{F (3)}	_	I _F = 100mA	_	0.90	1.20	
Reverse current	I _{R (1)}	_	V _R = 30V	_	_	0.1	μА
	I _{R (2)}	_	V _R = 80V	_	_	0.5	
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

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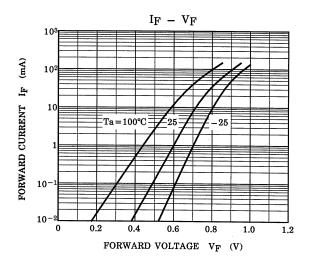
Weight: 2.4mg (typ.)

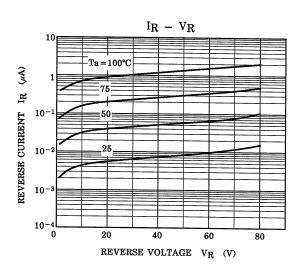
TOSHIBA

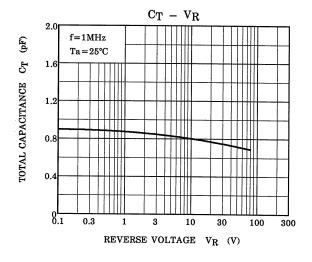
^{*} Unit rating. Total rating = unit rating × 1.5

Marking









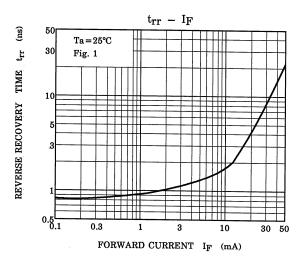
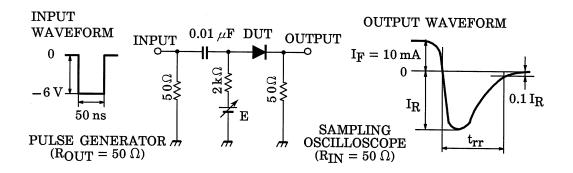


Fig.1 Reverse Recovery Time (t_{rr}) Test Circuit



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