Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

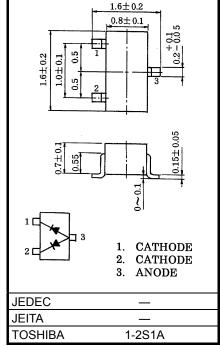
1SS360

Ultra High Speed Switching Application

• Small package

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



Weight: 2.4mg (typ.)

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	_	0.61	_	٧
	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	μΑ
	I _{R (2)}	_	V _R = 80V	_	-	0.5	
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	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

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

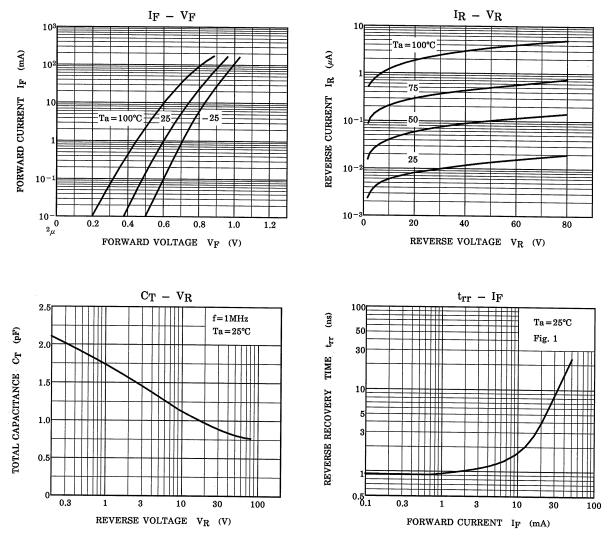
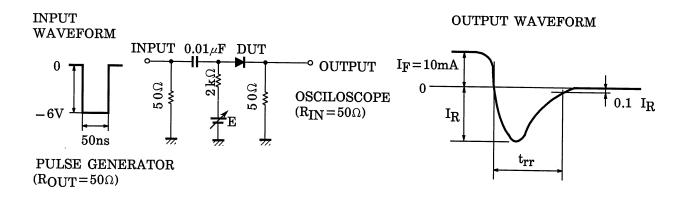


Fig.1 Reverse Recovery Time (t_{rr}) Test Circuit



2 2014-03-01

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