Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

# **1SS360**

## Ultra High Speed Switching Application

Small package

## **Maximum Ratings (Ta = 25°C)**

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	$V_{RM}$	85	V
Reverse voltage	V <sub>R</sub>	80	V
Maximum (peak) forward current	I <sub>FM</sub>	300 *	mA
Average forward current	Io	100 *	mA
Surge current (10ms)	I <sub>FSM</sub>	2 *	Α
Power dissipation	Р	100	mW
Junction temperature	Tj	125	°C
Storage temperature	T <sub>stg</sub>	<b>−</b> 55~125	°C

<sup>\*</sup> Unit rating. Total rating = unit rating  $\times$  1.5

# 1.6±0.2 0.8±0.1 1.0±0.2 1.0±0.1 1.0±0.2 1.0±0.1 1.0±0.2 1.0±0.1 1.0±0.2 1.0±0.1 1.0±0.2 1.0±0.1 1.0±0.2 1.0±0.

1-2S1A

Weight: 2.4mg

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## **Electrical Characteristics (Ta = 25°C)**

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V <sub>F (1)</sub>	_	I <sub>F</sub> = 1mA	1	0.61	1	٧
	V <sub>F (2)</sub>	_	I <sub>F</sub> = 10mA	_	0.74	_	
	V <sub>F (3)</sub>	_	I <sub>F</sub> = 100mA	_	0.92	1.20	
Reverse current	I <sub>R (1)</sub>	_	V <sub>R</sub> = 30V	_	_	0.1	μА
	I <sub>R (2)</sub>	_	V <sub>R</sub> = 80V	_	_	0.5	
Total capacitance	C <sub>T</sub>	_	V <sub>R</sub> = 0, f = 1MH <sub>z</sub>	_	2.2	4.0	pF
Reverse recovery time	t <sub>rr</sub>	_	I <sub>F</sub> = 10mA, Fig.1	_	1.6	4.0	ns

1

## Marking



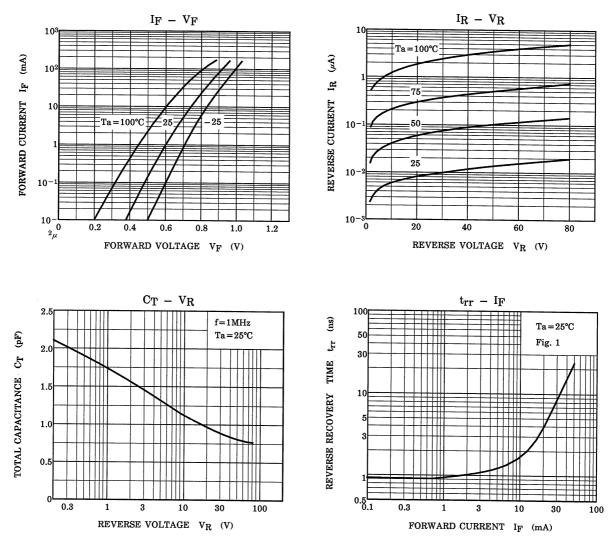
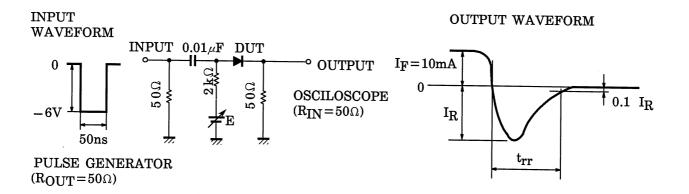


Fig.1 Reverse Recovery Time (trr) Test Circuit



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