TOSHIBA Diode Silicon Epitaxial Planar Type

1SS352

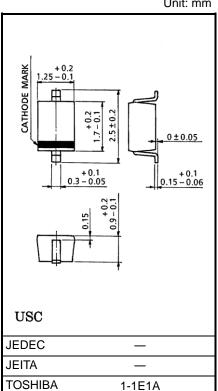
Ultra High Speed Switching Application

- AEC-Q101 Qualified (Note1)
- Small package
- $: V_{F}(3) = 0.98V (typ.)$ Low forward voltage
- Fast reverse recovery time: $t_{rr} = 1.6ns$ (typ.)
- Small total capacitance $: C_{T} = 0.5 pF (typ.)$

Note1: For detail information, please contact to our sales.

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	Vrm	85	V	
Reverse voltage	VR	80	V	
Maximum (peak) forward current	IFM	200	mA	
Average forward current	lo	100	mA	
Surge current (10ms)	IFSM	1	А	
Power dissipation	Р	200 (*)	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55 to 125	°C	



Weight: 0.004g (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).

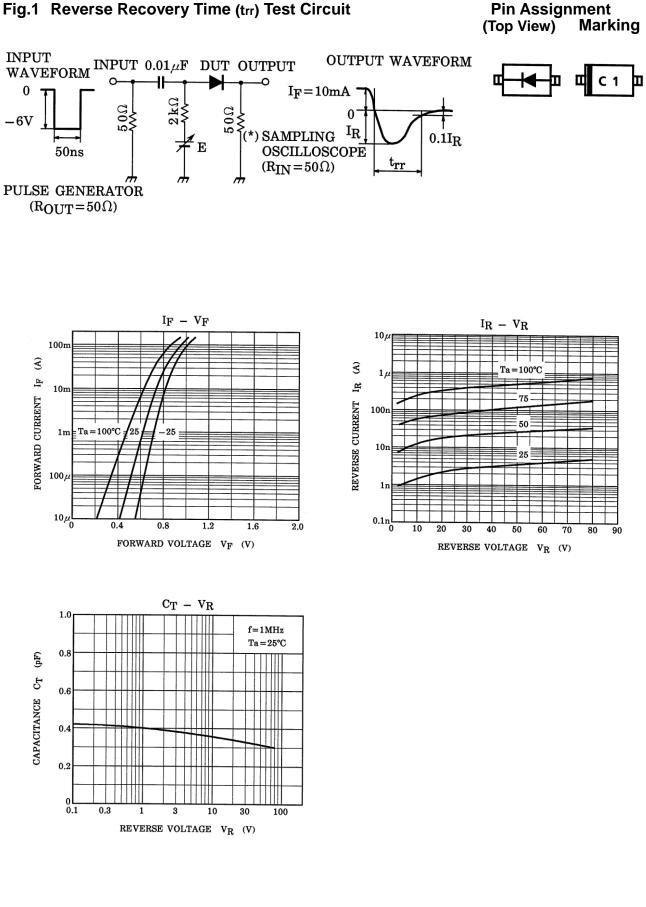
(*): Mounted on a glass epoxy circuit board of 20 × 20mm, pad dimension of 4 × 4mm.

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	-	I _F = 1mA	—	0.62	_	V
	VF (2)	-	I _F = 10mA	_	0.75	_	
	VF (3)	_	I _F = 100mA	_	0.98	1.20	
Reverse current	I _{R (1)}	_	V _R = 30V	_	_	0.1	μA
	I _{R (2)}	_	V _R = 80V	_	_	0.5	
Total capacitance	CT	_	$V_R = 0$, f = 1MH _z	—	0.5	3.0	pF
Reverse recovery time	trr	-	IF = 10mA, Fig.1	—	1.6	4.0	ns

Unit: mm

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Pin Assignment

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