TOSHIBA Diode Silicon Epitaxial Planar Type

1SS382

Ultra High Speed Switching Application

• Small package

• Composed of 2 independent diodes.

• Low forward voltage : $V_{F(3)} = 0.92V$ (typ.)

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

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 range	T _{stg}	-55~125	°C

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

1. ANODE 1 2. ANODE 2 3. CATHODE 2 4. CATHODE 1 JEDEC — EIAJ — TOSHIBA 1-2U1A

Weight: 0.006g

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	1	0.61	-	V
	V _{F (2)}	_	I _F = 10mA		0.74	-	V
	V _{F (3)}	_	I _F = 100mA	-	0.92	1.20	V
Reverse current	I _{R (1)}	_	V _R = 30V		1	0.1	μΑ
	I _{R (2)}	_	V _R = 80V	-	-	0.5	μA
Total capacitance	СТ	_	VR = 0, f = 1MHz	_	0.9	2.0	pF
Reverse recovery time	trr	_	IF = 10mA, Fig.1	_	1.6	4.0	ns

Pin Assignment (Top View)



Marking

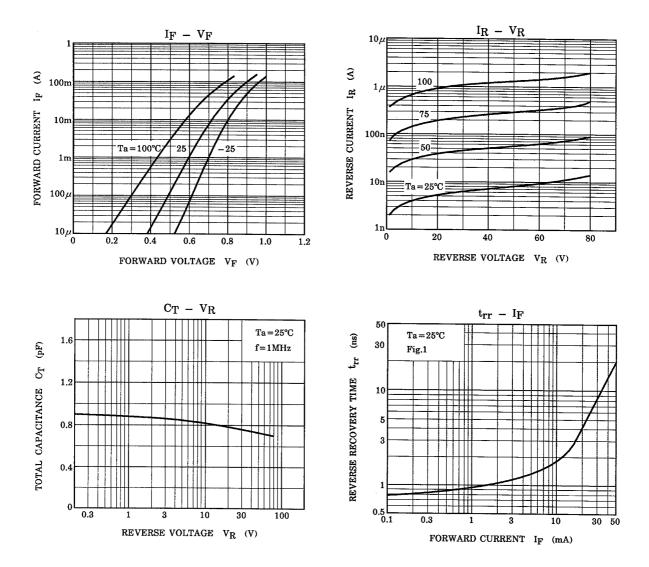
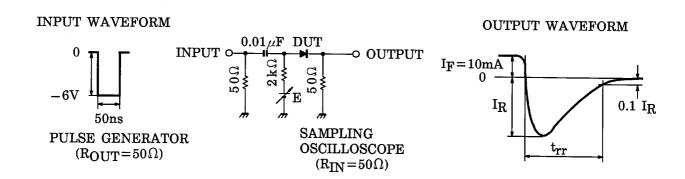


Fig.1 Reverse Recovery Time (t_{rr}) Test Circuit



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