<u>查询188360_07供应商</u> TOSHIBA

1SS360

Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

1SS360

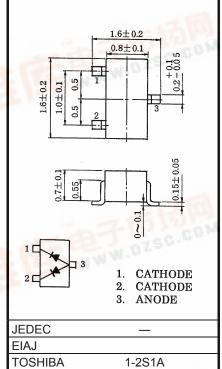
Ultra High Speed Switching Application

Small package

- Low forward voltage $: V_F = 0.92V (typ.)$
- Fast reverse recovery time: t_{rr} = 1.6ns (typ.)
- Small total capacitance $: C_T = 2.2 pF (typ.)$

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	Ι _Ο	100 *	mA				
Surge current (10ms)	I _{FSM}	2 *	А				
Power dissipation	Р	100	mW				
Junction temperature	Tj. e. C	125	°C				
Storage temperature	T _{stg}	-55~125	°C				



Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

Weight: 2.4mg

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.).

* Unit rating. Total rating = unit rating × 1.5

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	6-16	CQN
	V _{F (2)}	—	I _F = 10mA	2 63	0.74	150	
	V _{F (3)}	—	I _F = 100mA	1-11	0.92	1.20	
Reverse current	I _{R (1)}		V _R = 30V	_	—	0.1	μA
	I _{R (2)}	E	V _R = 80V	—	—	0.5	
Total capacitance	Ст	2014	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



TOSHIBA

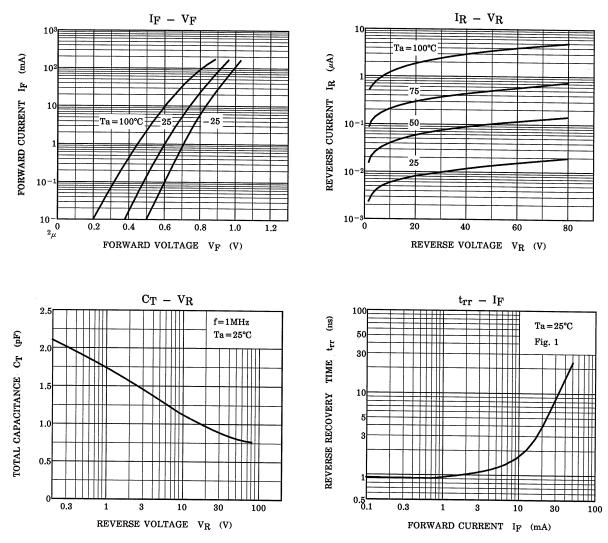
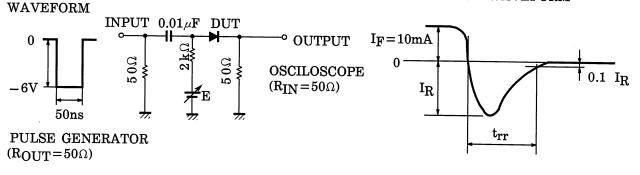


Fig.1 Reverse Recovery Time (t_{rr}) Test Circuit

INPUT





TOSHIBA

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20070701-EN GENERAL

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