查询1\$\$302_07供应商 TOSHIBA

1SS302

TOSHIBA Diode Silicon Epitaxial Planar Type

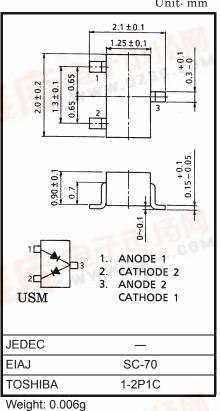
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Ultra High Speed Switching Applications

Small package : SC-70

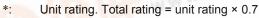
- Low forward voltage $V_{\rm F}(3) = 0.90 V (typ.)$
- Fast reverse recovery time: $t_{rr} = 1.6ns$ (typ.)
- Small total capacitance $: C_{T} = 0.9 pF (typ.)$

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)	IFSM	2 (*)	А	
Power dissipation	Р	100	mW	
Junction temperature	Tj	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 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)

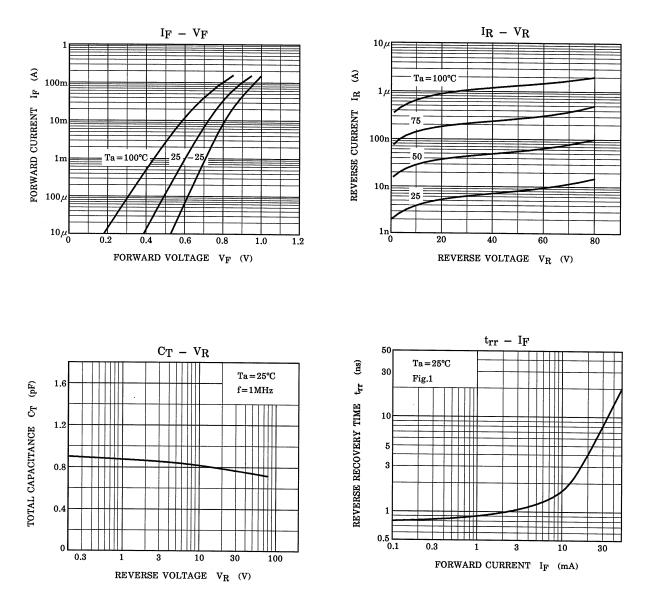
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	-	0.60	_	V
	V _{F (2)}		I _F = 10mA	—	0.72	_	
	V _{F (3)}	100	I _F = 100mA	_	0.90	1.20	
Reverse current	I _{R (1)}		V _R = 30V	_	_	0.1	μA
	I _{R (2)}	_	V _R = 80V	_	_	0.5	
Total capacitance	CT	—	V _R = 0, f = 1MHz		0.9	3.0	pF
Reverse recovery time	t _{rr}	_	I _F = 10mA, Fig.1	_	1.6	4.0	ns

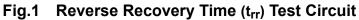


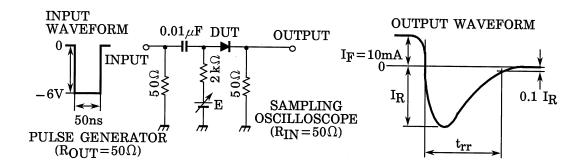
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Marking









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TOSHIBA

RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

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