TOSHIBA Diode Silicon Epitaxial Planar Type

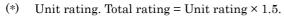
1SS272

Ultra High Speed Switching Application

• Small package : SC-61

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	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



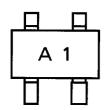
Weight: 0.013g

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	1		
	V _{F (2)}	_	I _F = 10mA	_	0.74	_	V	
	V _{F (3)}	_	I _F = 100mA	_	0.92	1.20		
Reverse current	I _{R (1)}	_	V _R = 30V	_	_	0.1		
	I _{R (2)}	_	V _R = 80V	_	_	0.5	μΑ	
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	0.9	2.0	pF	
Reverse recovery time	t _{rr}	_	I _F = 10mA ,Fig.1	_	1.6	4.0	ns	

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Marking



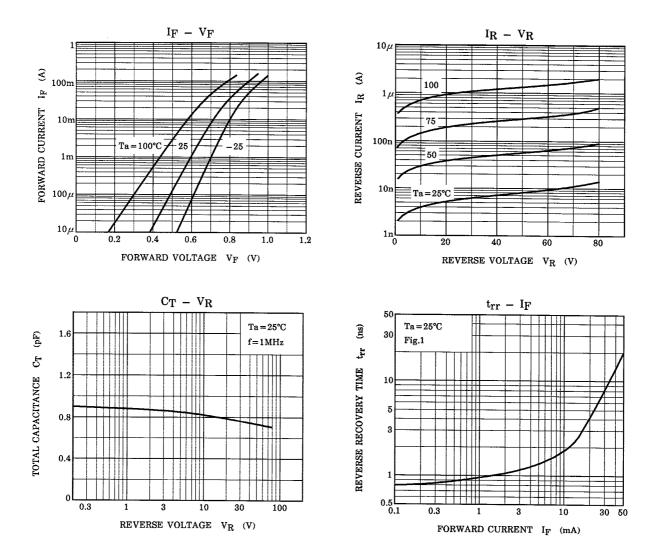
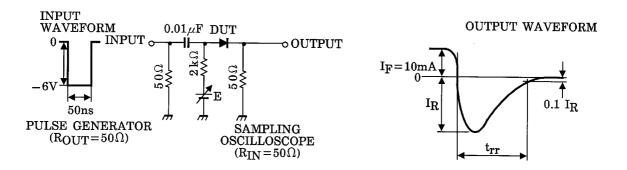


Fig.1 Reverse recovery time (t_{rr}) test circuit



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