TOSHIBA Diode Silicon Epitaxial Planar Type

1SS309

Ultra High Speed Switching Applications

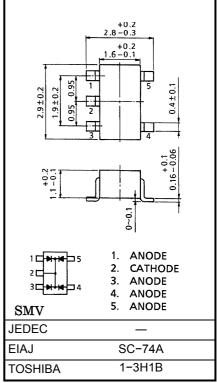
• Small package : SC-74A

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

^(*) Unit rating. Total rating = unit rating \times 1.5

Unit: mm

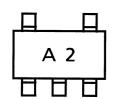


Weight: 0.014g

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	-	I _F = 1mA	1	0.60	_		
	V _{F (2)}		I _F = 10mA	1	0.72		٧	
	V _{F (3)}		I _F = 100mA	1	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	C _T	_	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	

Marking



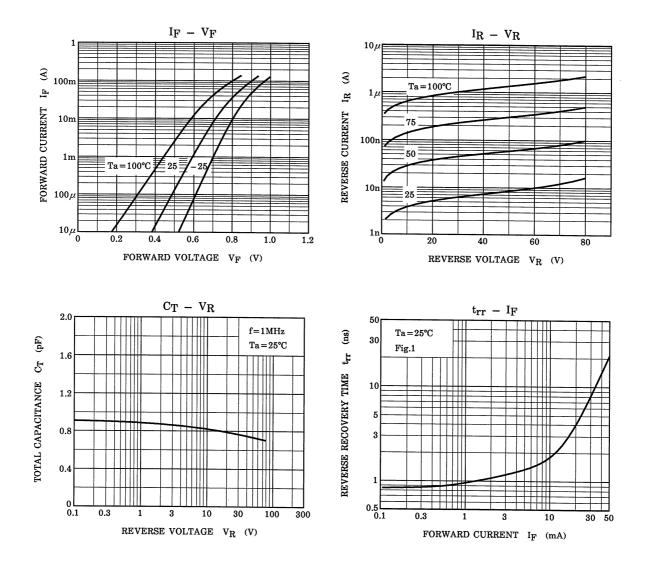
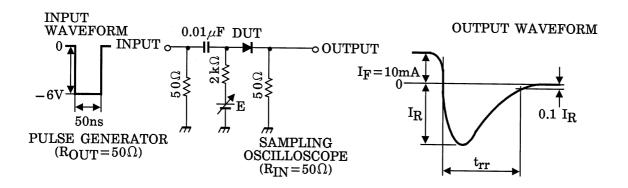


Fig.1 Reverse Recovery Time (trr) Test Circuit



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