Unit in mm

TOSHIBA Diode Silicon Epitaxial Planar Type

1SS184

Ultra High Speed Switching Application

• Small package : SC-59

• Low forward voltage : $V_{F\ (3)} = 0.9V\ (typ.)$ • Fast reverse recovery time: $t_{rr} = 1.6ns\ (typ.)$ • Small total capacitance : $T = 2.2pF\ (typ.)$

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	I _O	100 (*)	mA	
Surge current (10ms)	I _{FSM}	2 (*)	Α	
Power dissipation	Р	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55~125	°C	

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

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TO-236MOD

SC-59

1-3G1E

Weight: 0.012g

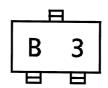
JEDEC

EIAJ TOSHIBA

Electrical Characteristics

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA		0.60	1	V
	V _{F (2)}	_	I _F = 10mA	-	0.72	1	
	V _{F (3)}	_	I _F = 100mA	_	0.90	1.20	
Reverse current	I _{R (1)}	_	V _R = 30V	_	_	0.1	μА
	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



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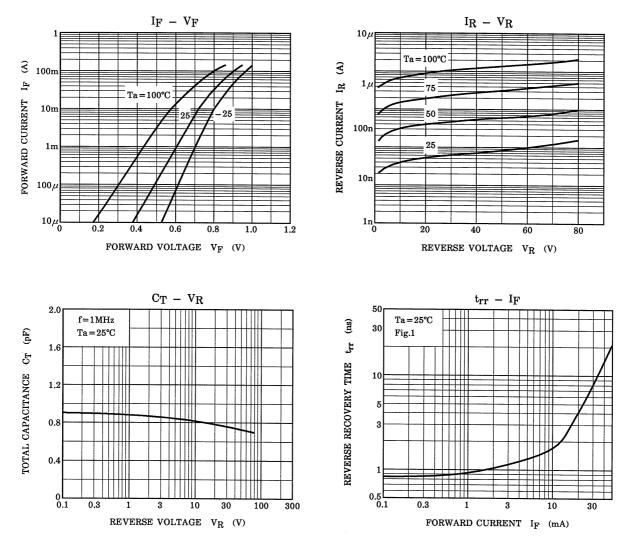
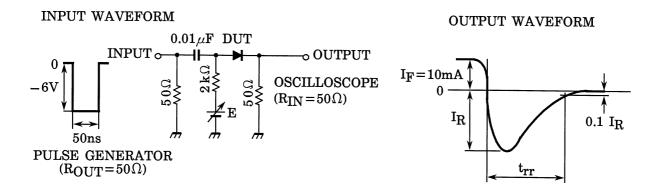


Fig.1 Reverse recovery time (t_{rr}) test circuit



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