Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

1SS250

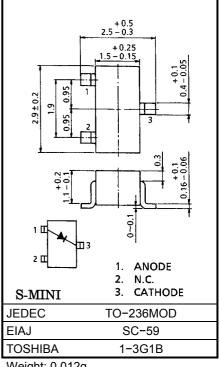
Ultra High Speed Switching Application

 Low forward voltage $V_{F(2)} = 0.90V \text{ (typ.)}$ Fast reverse recovery time: $t_{rr} = 60ns$ (typ.) Small total capacitance $: C_T = 1.5 pF (typ.)$

Small package : SC-59

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Peak reverse voltage	V_{RM}	250	V
Reverse voltage	V _R	200	V
Peak forward current	I _{FM}	300	mA
Average forward current	Io	100	mA
Surge current (10 ms)	I _{FSM}	2	Α
Power dissipation	Р	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



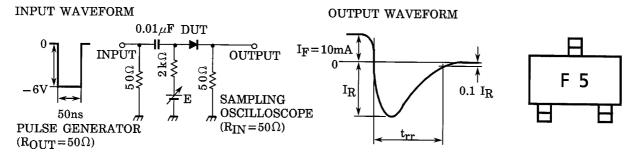
Weight: 0.012g

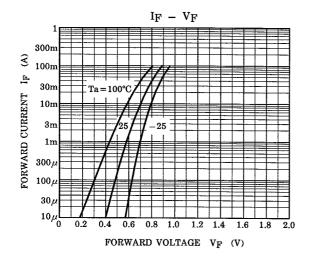
Electrical Characteristics (Ta = 25°C)

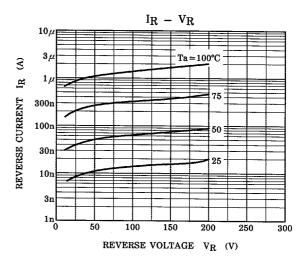
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 10mA	-	0.72	1.00	V	
	V _{F (2)}	_	I _F = 100mA	_	0.90	1.20	v	
Reverse current	I _{R (1)}	_	V _R = 50V	_	_	0.1		
	I _{R (2)}	_	V _R = 200V	_	_	1.0	μA	
Total capacitance	C _T	_	V _R = 0, f = 1MHz	_	1.5	3.0	pF	
Reverse recovery time	t _{rr}	_	I _F = 10mA (Fig.1)	_	10	6.0	ns	

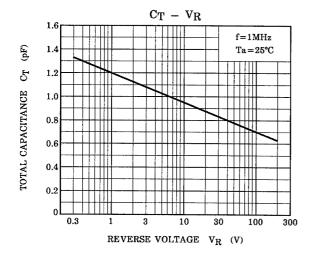
Fig.1 Reverse recovery time (t_{rr}) test circuit

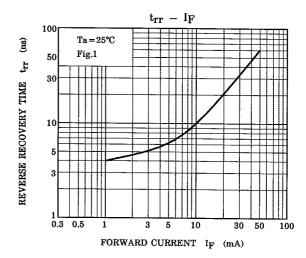
Marking











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000707EAA

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