TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS393

High Speed Switching Application

• Low forward voltage $: V_{F(3)} = 0.54V \text{ (typ.)}$ • Low reverse current $: I_{R} = 5\mu\text{A (max)}$

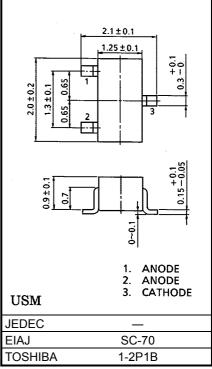
• Small package : SC-70

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	45	V
Reverse voltage	V_{R}	40	V
Maximum (peak) forward current	I _{FM}	300 *	mA
Average forward current	ΙO	100 *	mA
Surge current (10ms)	I _{FSM}	1 *	Α
Power dissipation	Р	100	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C
Operating temperature range	T _{opr}	- 40~100	°C

^{* :} Unit rating. Total rating = unit rating \times 1.5

Unit: mm



Weight: 0.006g

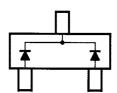
Electrical Characteristics (Ta = 25°C)

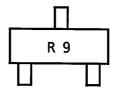
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.28	_	V
	V _{F (2)}	_	I _F = 10mA	-	0.36		
	V _{F (3)}	_	I _F = 100mA	_	0.54	0.60	
Reverse current	I _R	_	V _R = 40V	_	_	5	μΑ
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	18	25	pF

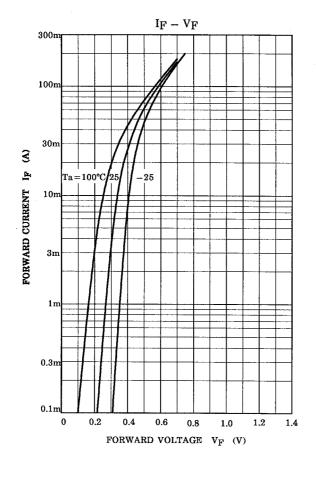
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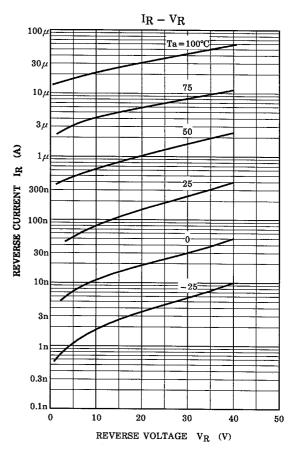
Equivalent Circuit (Top View)

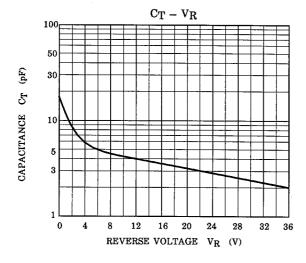


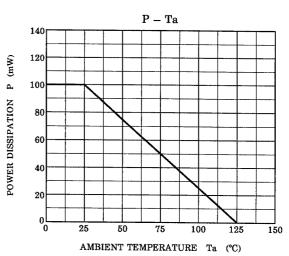












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