查询155393_07供应商 TOSHIBA

1SS393

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type



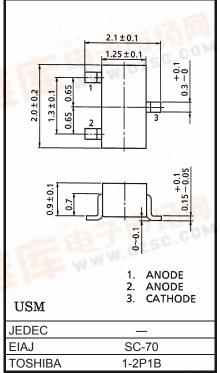
High Speed Switching Application

Unit: mm

- Low forward voltage $: V_F(3) = 0.54V$ (typ.) Low reverse current $: I_R = 5\mu A \text{ (max)}$
- Small package : SC-70

Absolute 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	Ι _Ο	100 *	mA	
Surge current (10ms)	I _{FSM}	1 *	А	
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	



Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

Weight: 0.006g

temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

* : Unit rating. Total rating = unit rating \times 1.5

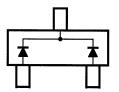
Electrical Characteristics (Ta = 25°C)

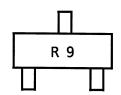
	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	—	I _F = 1mA	100	0.28	6-57	COL
	V _{F (2)}	—	I _F = 10mA		0.36	150	
	V _{F (3)}	—	I _F = 100mA	1	0.54	0.60	
Reverse current	I _R		V _R = 40V	_		5	μA
Total capacitance	CT	12	V _R = 0, f = 1MH _z	_	18	25	pF



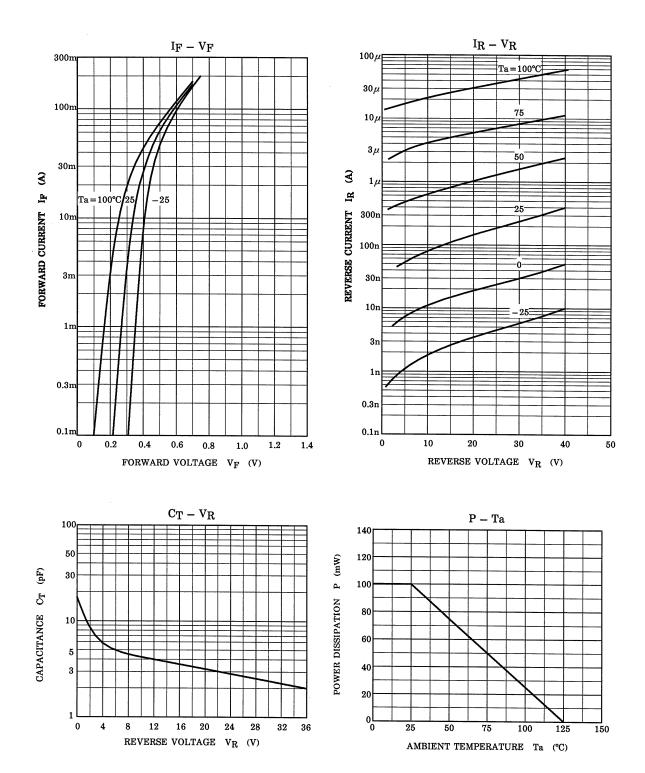
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Equivalent Circuit (Top View)





Marking



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20070701-EN GENERAL

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