查询188388_07供应商 **TOSHIBA**

1SS388

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

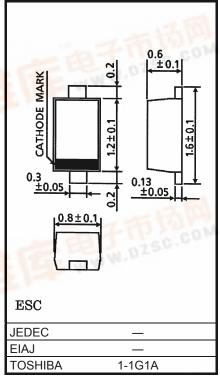


High Speed Switching Application

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

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	P *	150	mW	
Junction temperature	Тј	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: 1.4mg

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).

* Mounted on a glass epoxy circuit board of 20 × 20 mm, pad dimension of 4 × 4 mm.

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	155	0.28	1200	
	V _{F (2)}	—	I _F = 10mA	1	0.36	_	V
	V _{F (3)}	551	I _F = 50mA		0.54	0.60	
Reverse current	I _R		V _R = 10V	—	—	5	μA
Total capacitance	Ст	5 G M	V _R = 0, f = 1MH _z		18	25	pF

Equivalent Circuit (Top View)

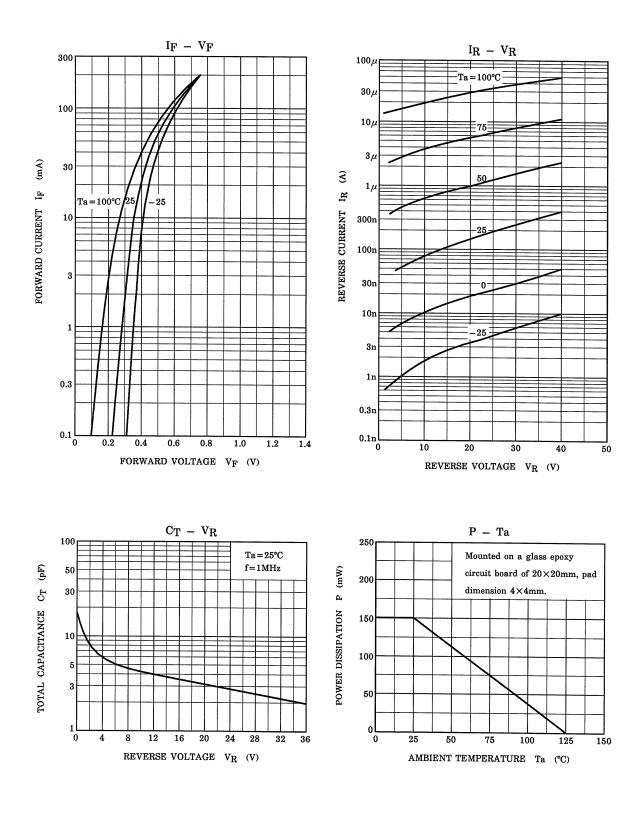
Marking





Unit: mm

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20070701-EN GENERAL

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