Unit: mm

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS388

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	IO	100	mA
Surge current (10ms)	I _{FSM}	1,((A
Power dissipation	P*	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C
Operating temperature range	T _{opr}	-40 to 100	€C

ESC

JEDEC

JEITA

TOSHIBA

0.6

±0.1

0.6

±0.1

0.7

0.13

±0.05

1-101A

Weight: 1.4mg (typ.)

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

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
\wedge (())	V _F (1)	_	I _F = 1mA	1	0.28	1	
Forward voltage	V _F (2)	_	I _F = 10mA	1	0.36	1	V
	V _F (3)	_	I _F = 50mA	_	0.54	0.60	
Reverse current	IR	_	V _R = 10V	_	_	5	μΑ
Total capacitance		_	$V_R = 0$, $f = 1MH_Z$	_	18	25	pF

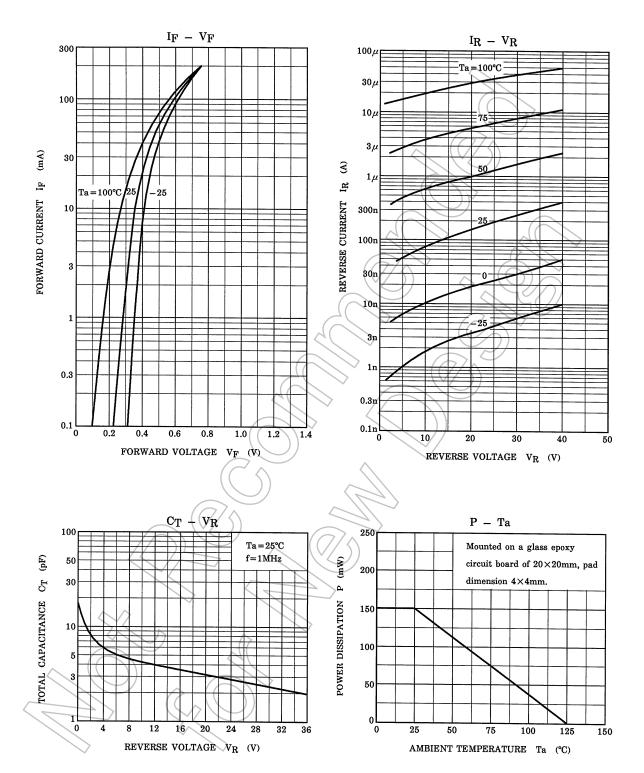
Equivalent Circuit (Top View)



Marking



Start of commercial production 1994-11



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