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 = 5μA (Max.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse Voltage	V _{RM}	45	V	
Reverse voltage	VR	40	V	
Maximum (peak) forward current	IFM	300	mA	
Average forward current	lo	100	mA	
Surge current (10ms)	IFSM	1	Α	
Power dissipation	P*	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55 to 125	°C	
Operating temperature range	Topr	-40 to 100	°C	

ESC

JEDEC

JEITA

TOSHIBA

1-1G1A

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 Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	I _F = 1mA	_	0.28	_	
	VF (2)	I _F = 10mA	_	0.36	_	٧
	VF (3)	I _F = 100mA	_	0.54	0.60	
Reverse current	I _R	V _R = 40V	_	_	5	μA
Total capacitance	Ст	$V_R = 0$, $f = 1MH_Z$	_	18	25	pF

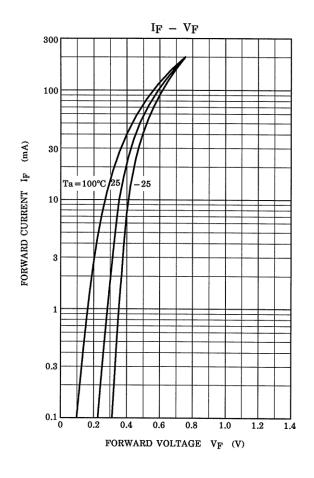
Equivalent Circuit (Top View)

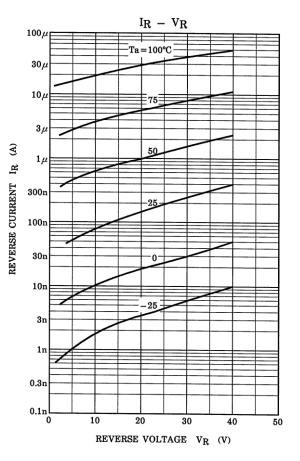


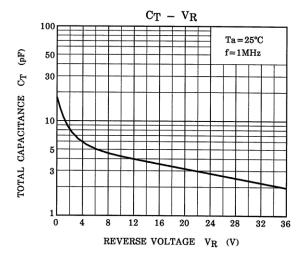
Marking

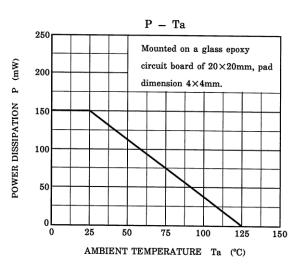


Start of commercial production 1994-11









1SS388

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