TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS367

High Speed Switching Application

Small package

Low forward voltage: $V_F = 0.23V$ (typ.) @ $I_F = 5mA$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	15	V
Reverse voltage	V _R	10	V
Maximum (peak) forward current	I _{FM}	200	mA
Average forward current	Io	100	mA
Surge current (10ms)	I _{FSM}	1	Α
Power dissipation	P*	200	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55~125	°C
Operating temperature range	T _{opr}	-40~100	°C

CATHODE MARK 0.3 + 0.1USC **JEDEC** JEITA Note: Using continuously under heavy loads (e.g. the application of high **TOSHIBA**

1-1E1A Weight: 0.004g (typ.)

+ 0.2 1.25 - 0.1

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 $20 \times 20 \text{ mm}$ 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	_	0.18	_	_	
	V _{F (2)}	_	I _F = 5mA	_	0.23	0.30	V	
	V _{F (3)}	_	I _F = 100mA	_	0.35	0.50		
Reverse current	I _R	_	V _R = 10V	_	_	20	μΑ	
Total capacitance	C _T	_	V _R = 0, f = 1MHz	_	20	40	pF	

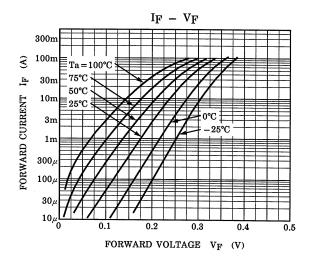
Equivalent Circuit (Top View)

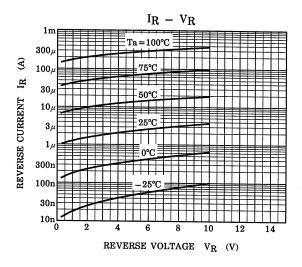
Marking

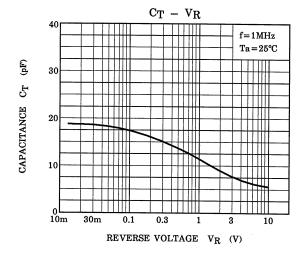


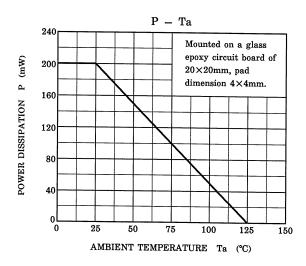


Unit: mm









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