TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

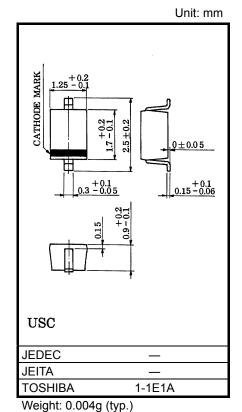
1SS367

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	VR	10	V
Maximum (peak) forward current	I _{FM}	200	mA
Average forward current	Ι _Ο	100	mA
Surge current (10ms)	I _{FSM}	1	А
Power dissipation	P *	200	mW
Junction temperature	Тj	125	°C
Storage temperature	T _{stg}	-55 to 125	°C
Operating temperature range	T _{opr}	-40 to 100	°C



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
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	Ι _R	-	V _R = 10V	_	_	20	μA
Total capacitance	CT	_	V _R = 0, f = 1MHz		20	40	pF

Equivalent Circuit (Top View)

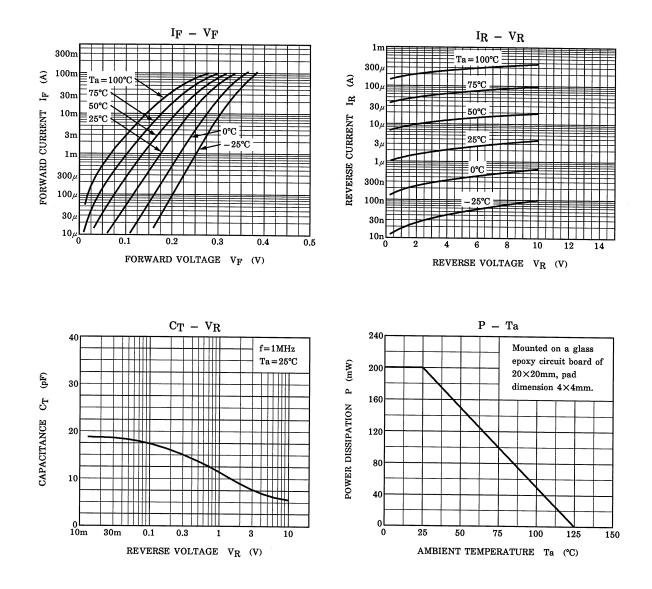
Marking





Start of commercial production 1993-04

TOSHIBA



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