TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS395

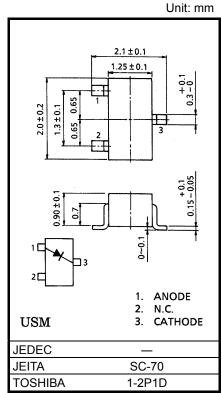
High Speed Switching Application

- Small package
- Low forward voltage: $V_{F(2)} = 0.23V$ (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	Р	100	mW
Junction temperature	Tj	125	°C
Storage temperature range	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



Weight: 0.006g (typ.)

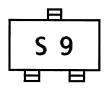
reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

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).

Electrical Characteristics (Ta = 25°C)

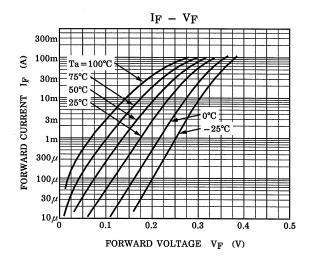
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.18	_		
	V _{F (2)}	_	I _F = 5mA	1	0.23	0.30	V	
	V _{F (3)}	_	I _F = 100mA	_	0.35	0.50		
Reverse current	I _R	_	V _R = 10V	_	_	20	μΑ	
Total capacitance	C _T	_	$V_R = 0$, $f = 1MH_Z$	_	20	40	pF	

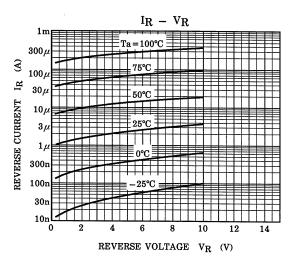
Marking

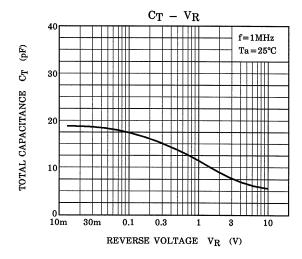


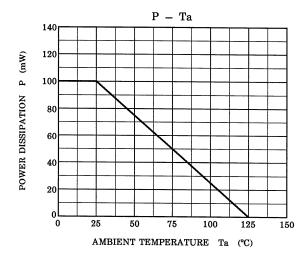
Start of commercial production 1996-04

^{*} Unit rating. Total rating = unit rating × 0.7









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