TOSHIBA Diode Silicon Epitaxial Planar Schottky Barrier Type

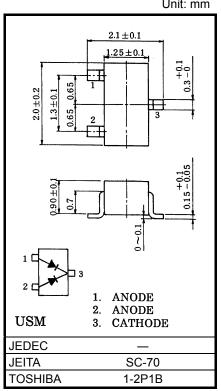
1SS378

High Speed Switching

- Low forward voltage : $V_F = 0.23V$ (typ.) @I_F = 5mA
- Small package
- : SC-70

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	Ι _Ο	100 *	mA
Surge current (10ms)	I _{FSM}	1 *	А
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



Weight: 0.006g (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).

*: Unit rating. Total rating = unit rating × 1.5

Electrical Characteristics (Ta = 25°C)

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

Equivalent Circuit (Top View)

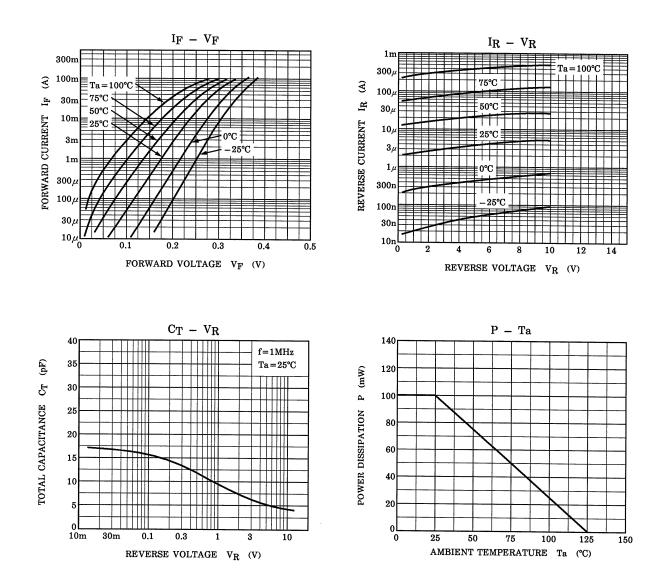


Marking



Start of commercial production 1993-12

TOSHIBA



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