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TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

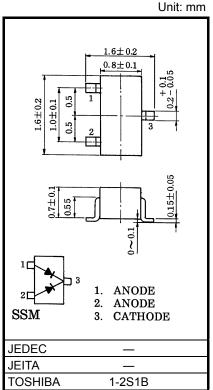
1SS385

High Speed Switching

- Low forward voltage: $V_F (2) = 0.23V$ (typ.) @IF = 5mA
- Small package

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	Тј	125	°C	
Storage temperature range	T _{stg}	-55 to 125	°C	
Operating temperature range	T _{opr}	-40 to 100	°C	



Weight: 2.4mg (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).

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

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
	VF (2)	-	IF = 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)

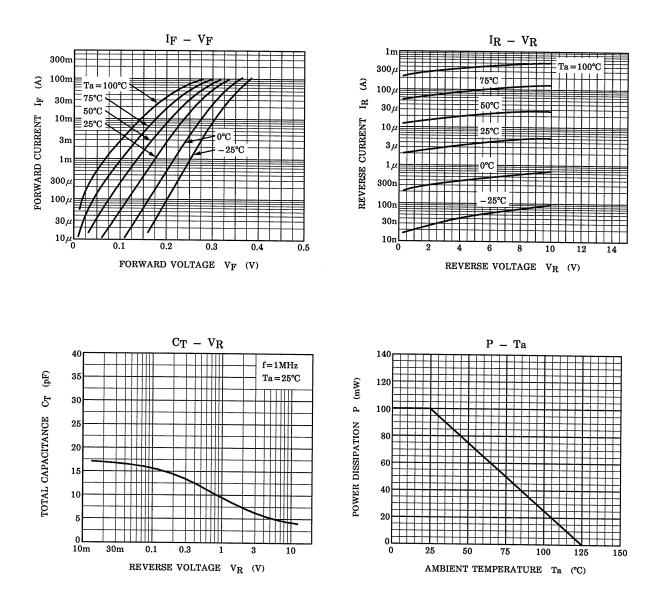






Start of commercial production 1994-10

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