TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

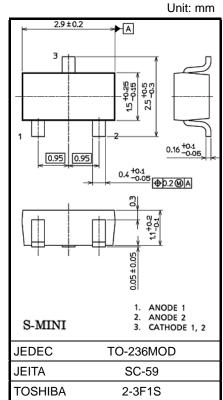
1SS377

High Speed Switching

- Low forward voltage $: V_{F(2)} = 0.23V$ (typ.)
- Small package : SC-59

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	IFM	200 *	mA	
Average forward current	lo	100 *	mA	
Surge current (10ms)	IFSM	1 *	А	
Power dissipation	Р	150	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: 12 mg (typ.)

temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the

Note: Using continuously under heavy loads (e.g. the application of high

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 Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1mA	_	0.18	_	V
	VF (2)	IF = 5mA	_	0.23	0.30	
	VF (3)	I _F = 100mA	_	0.35	0.50	
Reverse current	I _R	V _R = 10V	_	_	20	μA
Total capacitance	Ст	$V_R = 0V, f = 1MH_Z$	-	20	40	pF

Equivalent Circuit (Top View)

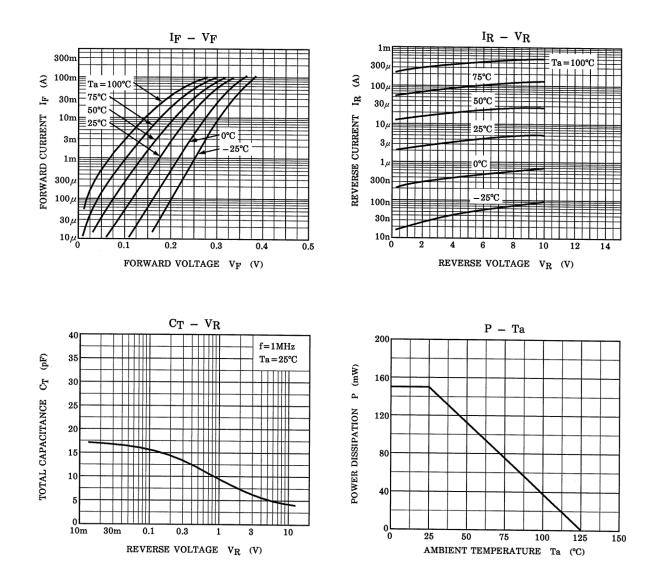


Marking



Start of commercial production 1993-12

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