TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS374

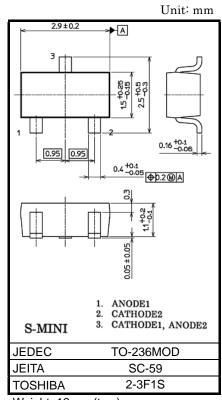
High Speed Switching Application

- AEC-Q101 Qualified (Note1)
- Low forward voltage : VF(2) = 0.23V (typ.)
- Small package : SC-59

Note1: For detail information, please contact to our sales.

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse Voltage	Vrm	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.)

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 × 0.7

Electrical Characteristics (Ta = 25°C)

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

Marking

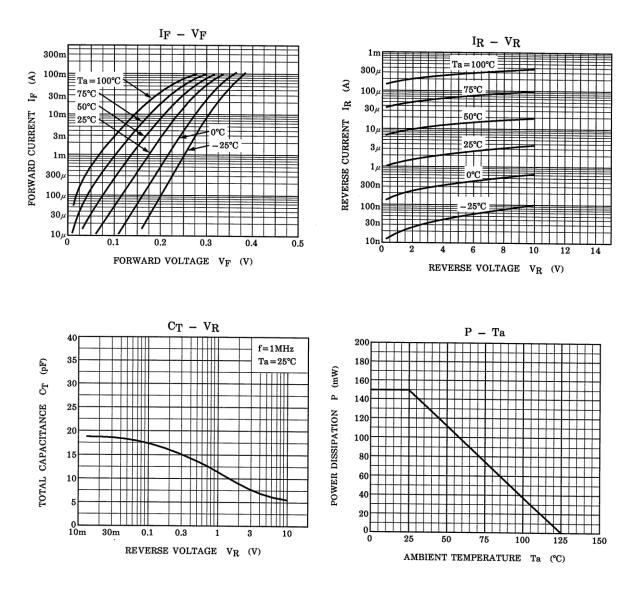
Equivalent Circuit (top View)





Start of commercial production 1993-04

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