TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS321

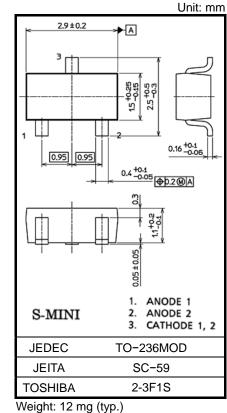
Low-Voltage High-Speed Switching

- AEC-Q101 Qualified (Note1)
- Low forward voltage: VF(2) = 0.42 V (typ.)
- Low reverse current: IR = 500 nA (max)
- Small package: SC-59

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

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V _{RM}	12	V
Reverse voltage	VR	10	V
Maximum (peak) forward current	IFM	150*	mA
Average forward current	lo	50*	mA
Surge current (10 ms)	IFSM	1000*	mA
Power dissipation	Р	150	mW
Junction temperature	Тј	125	°C
Storage temperature	T _{stg}	-55 to 125	°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 reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

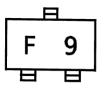
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

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

Electrical Characteristics (Ta = 25°C)

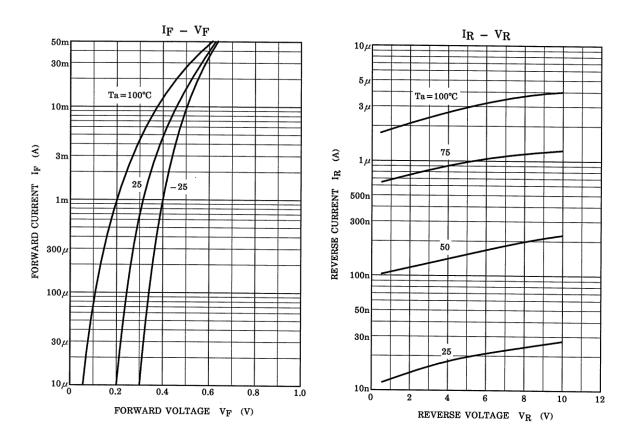
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1 mA	-	0.32	_	
	VF (2)	IF = 10 mA	-	0.42	_	V
	VF (3)	IF = 50 mA	_	0.63	1.00	
Reverse current	I _R	V _R = 10 V	_	_	500	nA
Total capacitance	Ст	V _R = 0 V, f = 1 MHz	-	3.2	4.5	pF

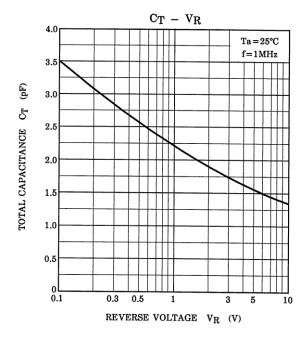
Marking



Start of commercial production 1987-10

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