TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS294

Low Voltage High Speed Switching

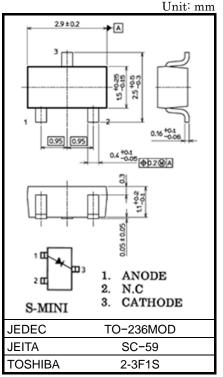
• AEC-Q101 Qualified (Note1)

• 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	V _{RM}	45	V	
Reverse voltage	VR	40	V	
Maximum (peak) forward current	I _{FM}	300	mA	
Average forward current	lo	100	mA	
Power dissipation	Р	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55 to 125	°C	



Weight: 12 mg (typ.)

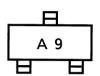
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) 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).

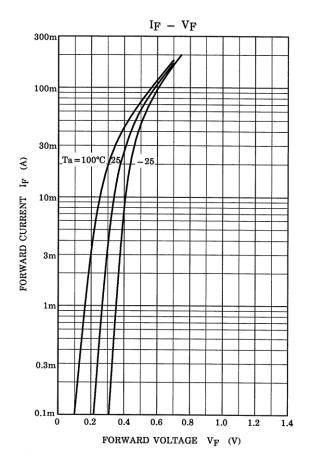
Electrical Characteristics (Ta = 25°C)

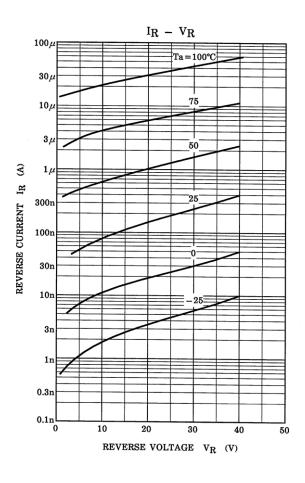
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1mA	_	0.28	_	
	VF (2)	IF = 10mA	_	0.36	_	V
	VF (3)	IF = 100mA	_	0.54	0.60	
Reverse current	IR	V _R = 40V		_	5	μА
Total capacitance	Ст	V _R = 0 V, f = 1MHz	_	18	25	pF

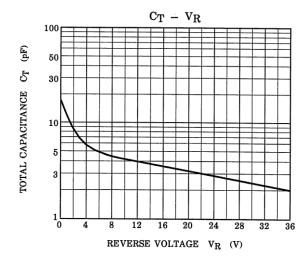
Marking

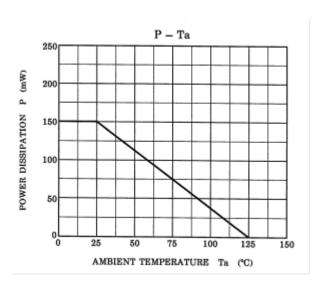


Start of commercial production 1986-03









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