Unit: mm

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS294

Low Voltage High Speed Switching

- AEC-Q101 Qualified (Note1)
- Low forward voltage $V_{\rm F}(3) = 0.54 V (typ.)$
- Low reverse surrent $I_{R} = 5\mu A (max)$
- Small package : SC-59

Characteristic

Maximum (peak) reverse voltage

Reverse voltage

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

	-	
		0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4
-		³ 1. ANODE 2. N.C 3. CATHODE
	JEDEC	TO-236MOD
	JEITA	SC-59
_	TOSHIBA	
		2-3F1S

2.9±0.2

•

Absolute Maximum Ratings (Ta = 25°C)

Maximum (peak) forward current	I _{FM}	300	mA	S-MINI
Average forward current	lo	100	mA	JEDEC
Power dissipation	Р	150	mW	JEITA
Junction temperature	Tj	125	°C	TOSHIBA
Storage temperature range	T _{stg}	-55 to 125	°C	Weight: 12 mg (typ

Symbol

VRM

 V_{R}

/p.)

oltage 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.

Rating

45

40

Unit

V

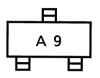
V

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)

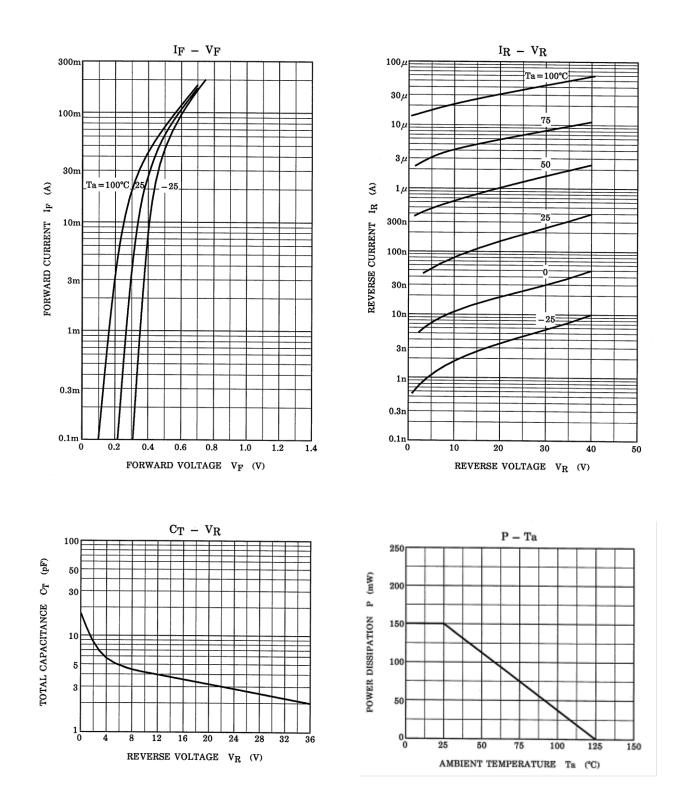
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
	VF (1)	IF = 1mA	_	0.28	_	V
Forward voltage	VF (2)	IF = 10mA	_	0.36	_	
	VF (3)	IF = 100mA	_	0.54	0.60	
Reverse current	IR	VR = 40V	_	_	5	μΑ
Total capacitance	CT	V _R = 0 V, f = 1MHz	_	18	25	pF

Marking



Start of commercial production 1986-03

TOSHIBA



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