TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS322

Low Voltage High Speed Switching

• Low forward voltage : $V_{F(3)} = 0.54V$ (typ.) • Low reverse current : $I_{R} = 5\mu A$ (max)

• Small package : SC-70

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V_{RM}	45	V	
Reverse voltage	VR	40	٧	
Maximum (peak) forward current	I _{FM}	300	mA	
Average forward current	Io	100	mA	
Power dissipation	Р	100	mW	
Junction temperature	Tj	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).

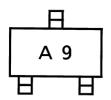
2.1±0.1 1.25

Weight: 0.006g (typ.)

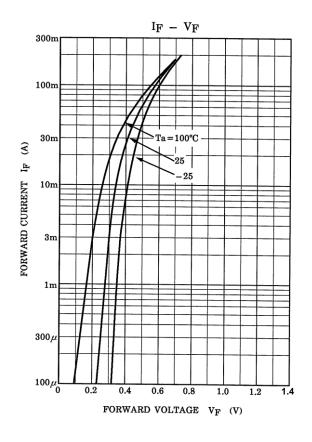
Electrical Characteristics (Ta = 25°C)

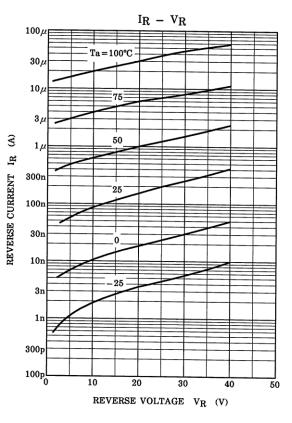
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1mA		0.28		V
	VF (2)	IF = 10mA		0.36	1	
	VF (3)	IF = 100mA	_	0.54	0.60	
Reverse current	IR	V _R = 40V	_	_	5	μΑ
Total capacitance	Ст	V _R = 0, f = 1MHz		18	25	pF

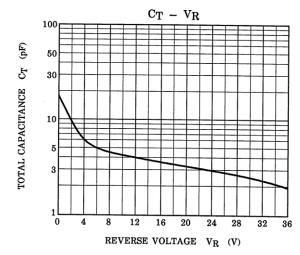
Marking



Start of commercial production 1988-01







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