TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

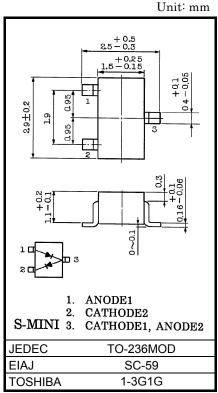
1SS374

High Speed Switching Application

- Small package
- Low forward voltage: $V_F (2) = 0.23V$ (typ.) @I_F = 5mA

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse Voltage	V _{RM}	15	V	
Reverse voltage	V _R	10	V	
Maximum (peak) forward current	I _{FM}	200 *	mA	
Average forward current	Ι _Ο	100 *	mA	
Surge current (10ms)	I _{FSM}	1 *	А	
Power dissipation	Р	150	mW	
Junction temperature	Тј	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	
Operating temperature range	T _{opr}	-40~100	°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

Weight: 0.012g

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 $\times 0.7$

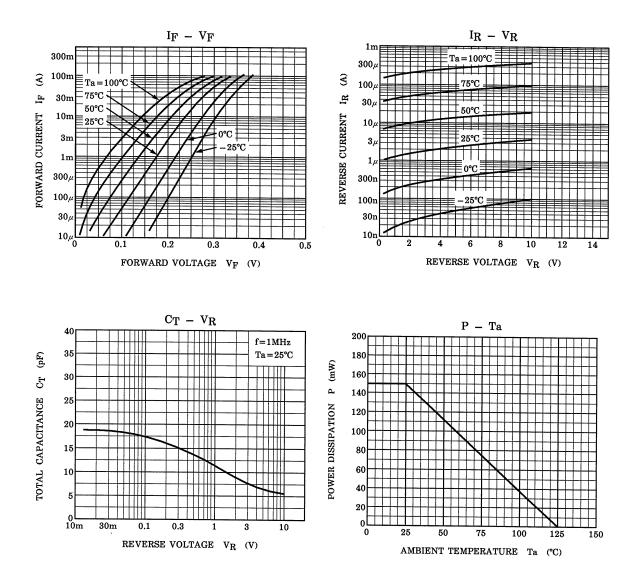
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.18	_	
	V _{F (2)}	-	I _F = 5mA	_	0.23	0.30	V
	V _{F (3)}	-	I _F = 100mA	_	0.35	0.50	
Reverse current	I _R	-	V _R = 10V	_	_	20	μA
Total capacitance	CT	_	V _R = 0, f = 1MH _z	_	20	40	pF

Marking



TOSHIBA



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20070701-EN GENERAL

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