Unit: mm



TOSHIBA Diode Silicon Epitaxial Planar Type

# **1SS307**

#### General Puropose Rectifier Applications

• Small package : SC-59

### Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	$V_{RM}$	35	V	
Reverse voltage	V <sub>R</sub>	30	V	
Maximum (peak) forward current	I <sub>FM</sub>	300	mA	
Average forward current	IO	100	mA	
Surge current (10ms)	I <sub>FSM</sub>	2	Α	
Power dissipation	P	150	mW	
Junction temperature	Jiag .	125	°C	
Storage temperature	T <sub>stg</sub>	−55~125	°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

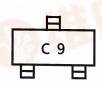
reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

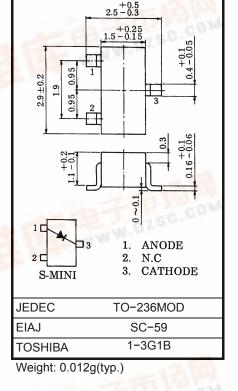
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

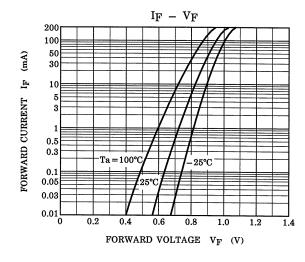
## Electrical Characteristics (Ta = 25°C)

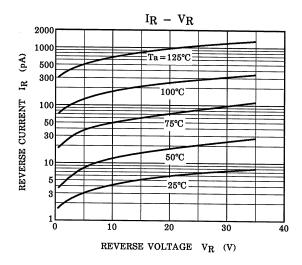
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V <sub>F</sub>	_	I <sub>F</sub> = 10mA	( <del>-</del>	1.0	1.3	V
Reverse current	I <sub>R</sub>	_	V <sub>R</sub> = 30V		- <del></del> - C	10	μA
Total capacitance	C <sub>T</sub>	_	V <sub>R</sub> = 0, f = 1MHz	- yi	3.0	6.0	pF

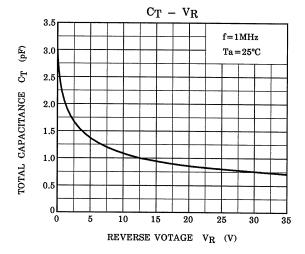
### Marking

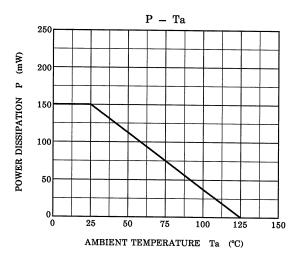












2

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20070701-EN GENERAL

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