TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS357

Rating

45

40

300

100

1

200*

125

-55~125

Unit

V

v

mΑ

mΑ

Α

mW °C

°C

Low Voltage High Speed Switching

Absolute Maximum Ratings (Ta = 25°C)

• Low forward voltage

Characteristic

Maximum (peak) reverse voltage

Maximum (peak) forward current

Average forward current

Surge current (10ms)

Junction temperature

Storage temperature range

Power dissipation

Reverse voltage

 $: V_F(3) = 0.54V (typ.)$ $I_R = 5\mu A (max)$

Symbol

VRM

 V_R

IFM

lo

IFSM

Ρ

Τį

Tstg

reliability significantly even if the operating conditions (i.e. operating

: SC-70

Low reverse current Small package

TOSHIBA

MARK $1.25_{-0.1}^{+0.2}$ CATHODE $1.7_{-0.1}^{+0.2}$ 5±0. 0 ± 0.05 H $0.3^{+0.1}_{-0.05}$ $0.15_{-0.0}^{+0.1}$ 6+0+6 2 പ് JEDEC _ EIAJ TOSHIBA 1-1E1A

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: 0.004g

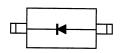
temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and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

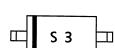
Mounted on a glass epoxy circuit board of 20 × 20mm, * pad dimension of 4 × 4mm.

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	—	I _F = 1mA		0.28	_	V
	V _{F (2)}	—	I _F = 10mA	_	0.36	-	
	V _{F (3)}	—	I _F = 100mA	_	0.54	0.60	
Reverse current	I _{R (1)}	_	V _R = 40V	_	-	5	μA
Total capacitance	CT	—	V _R = 0, f = 1MH _z	_	18	25	pF

(Top View)





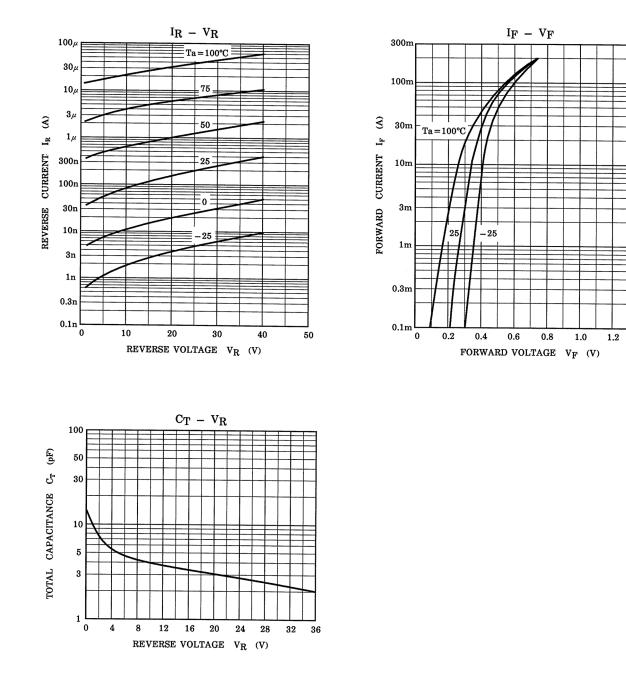
Marking

Unit in mm

2007-11-01

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1.6



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20070701-EN GENERAL

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