TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS357

Low Voltage High Speed Switching

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

• Small package : SC-70

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V_{RM}	45	V	
Reverse voltage	V_{R}	40	V	
Maximum (peak) forward current	I _{FM}	200	mA	
Average forward current	ΙO	100	mA	
Surge current (10ms)	I _{FSM}	1	Α	
Power dissipation	Р	200*	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	

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

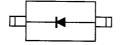
Unit in mm CATHODE MARK O. 15-0.15 O. 15-0.16 O. 15-0.16 O. 15-0.16 O. 15-0.16 O. 15-0.17 O. 15-0.16 O. 15-0.16

Weight: 0.004g

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 _{F (2)}	_	I _F = 10mA	-	0.36	1	V	
	V _{F (3)}	_	I _F = 100mA	_	0.54	0.60		
Reverse current	I _{R (1)}	_	V _R = 40V	_	_	5	μΑ	
Total capacitance	C _T	_	$V_R = 0$, $f = 1MH_z$	_	18	25	pF	

(Top View)



Marking



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damage to property.

In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..

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