<u>查询188401_07供应商</u> TOSHIBA

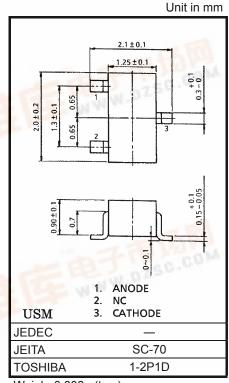
1SS401

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS401

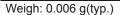
High Speed Switching Applications

- Low forward voltage : $V_{F(3)} = 0.38 V (typ.)$
 - Low reverse current : $I_R = 50\mu A (max)$
- Small total capacitance : C_T = 46 pF (typ.)



Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V _{RM}	25	V	
Reverse voltage	V _R	20	V	
Maximum (peak) forward current	I _{FM}	700	mA	
Average forward current	lo	300	mA	
Power dissipation	Р	100	mW	
Junction temperature	D TjSG-	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 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)

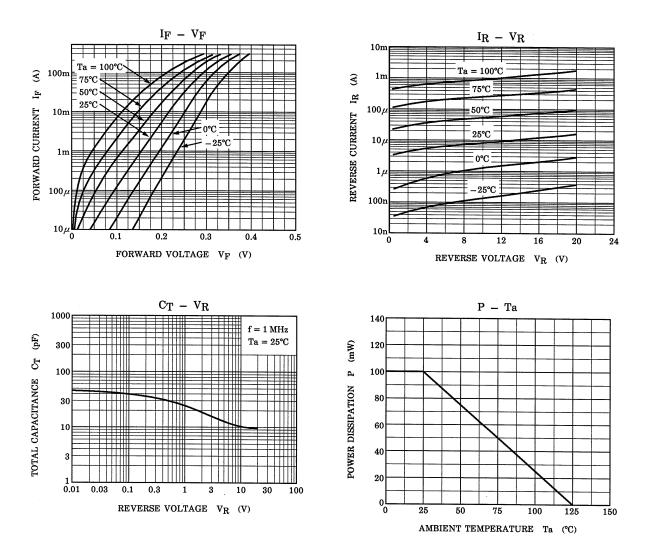
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	—	I _F = 1mA	2	0 <mark>.1</mark> 6	-==0	CON
	V _{F (2)}	_	I _F = 10mA		0.22	_	V
	V _{F (3)}		I _F = 300mA	_	0.38	0.45	
Reverse current	IR	L.	V _R = 20V	—	—	50	μA
Total capacitance	Ст	1403	V _R = 0, f = 1MHz	_	46	_	pF

Pin Assignment (Top View)

Marking



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RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

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