查询188402_07供应商 **TOSHIBA**

1SS402

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

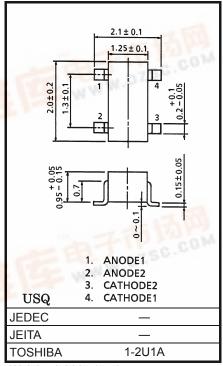
1SS402

High Speed Switching Applications

- Two independent diodes are mounted on four-pin ultra-small packages that are suitable for higher mounting densities.
- Low forward voltage : V_{F (3)} = 0.50V (typ.)
- Low reverse current : I_R= 0.5μA (max)
- Small total capacitance : C_T = 3.9pF (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}	100 *	mA	
Average forward current	Ι _Ο	50 *	mA	
Surge Current (10ms)	IFSM	I _{FSM} 1 *		
Power dissipation	Р	100 *	mW	
Junction temperature	N. 9 Тј	T _j 125		
Storage temperature range	T _{stg}	-55~125	°C	



Weight: 0.006 g(typ.)

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.).

*: Unit rating. Total rating = Unit rating × 1.5

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	-	I _F = 1mA	(F)	0.33	150-	Com
	V _{F (2)}	_	I _F = 5mA	NW 2	0.38	_	V
	V _{F (3)}		I _F <mark>= 5</mark> 0mA	_	0.50	0.55	
Reverse current	I _{R (1)}		V _R = 20V	_	_	0.5	μA
Total capacitance	Ст	10.14	V _R = 0, f = 1MHz	—	3.9	5.0	pF

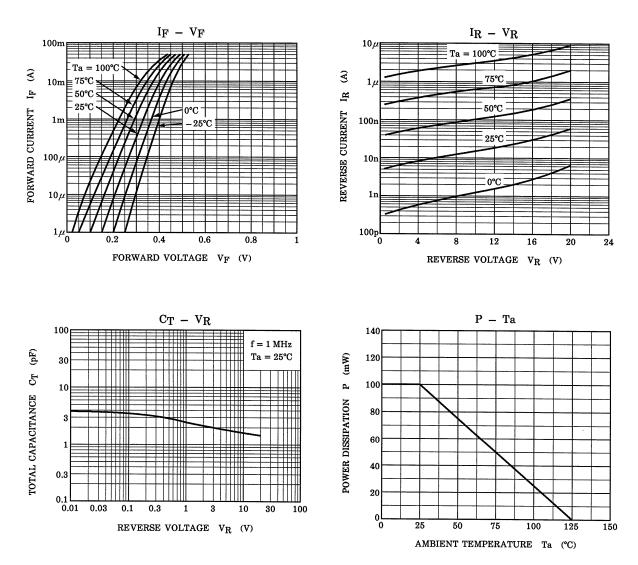
Pin Assignment (Top View)

Marking



Unit in mm

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20070701-EN GENERAL

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