Unit in mm

<u>71</u>

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS402

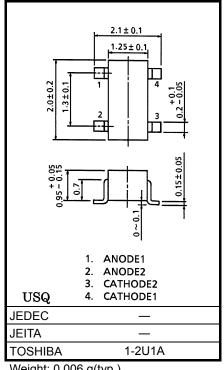
High Speed Switching Applications

Two independent diodes are mounted on four-pin ultra-small packages that are suitable for higher mounting densities.

Low forward voltage $V_{F(3)} = 0.50V \text{ (typ.)}$ Low reverse current : $I_R = 0.5 \mu A \text{ (max)}$ 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	Io	50 *	mA
Surge Current (10ms)	I _{FSM}	1 *	Α
Power dissipation	Р	100 *	mW
Junction temperature	Tj	125	°C
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

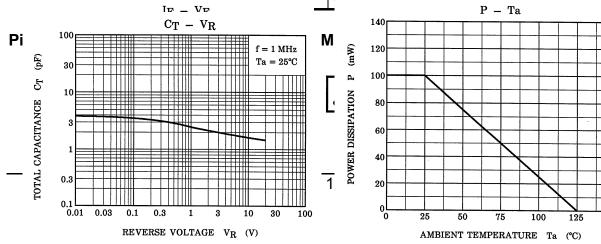
temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

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 \times 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	_	0.33	_		
	V _{F (2)}	_	I _F = 5mA	_	0.38		V	
	V _{F (3)}	_	I _F = 50mA	_	0.50	0.55		
Reverse current	I _{R (1)}	_	V _R = 20V	_	_	0.5	μΑ	
Total conscitance	^ -		1			1	F	



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