TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

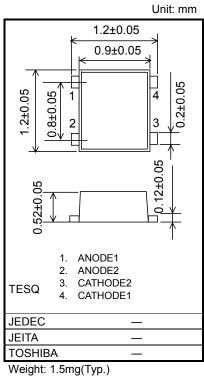
HN2S03T

High Speed Switching Application

- Two independent diodes are mounted on Thin Extreme Super Mini Quad package 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.)

Maximum Ratings (Q1, Q2 Common, 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)	I _{FSM}	1 *	А
Power dissipation	Р	70 **	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C
Operating temperature range	T _{opr}	-40~100	°C



vveight: 1.5mg(

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

**: Total rating

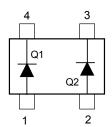
Electrical Characteristics (Q1, Q2 Common, Ta = 25°C)

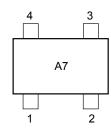
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.33	_	
	V _{F (2)}	_	I _F = 5mA	_	0.38	_	V
	V _{F (3)}	_	I _F = 50mA	_	0.50	0.55	
Reverse current	I _R	—	V _R = 20V	—	—	0.5	μA
Total capacitance	CT	_	V _R = 0, f = 1MH _z		3.9		pF

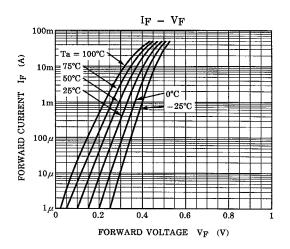
TOSHIBA

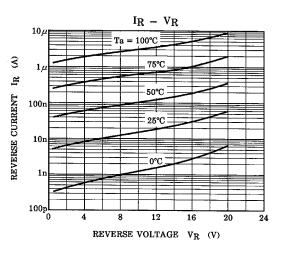
Pin Assignment (Top View)

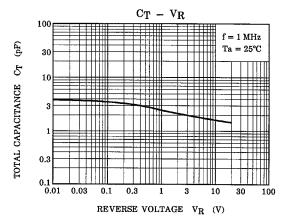
Marking



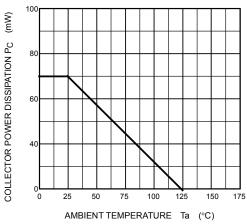












2004-02-27

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