Unit: mm

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

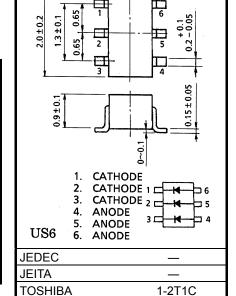
HN2S01FU

Low Voltage High Speed Switching Application

- HN2S01FU is composed of 3 independent diodes.
- Low reverse current: $V_F = 0.23V$ (typ.) @ $I_F = 5mA$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	15	V
Reverse voltage	V _R	10	٧
Maximum (peak) forward current	I _{FM}	200 *	mA
Average forward current	Io	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 to 125	°C
Operating temperature range	T _{opr}	-40 to 100	°C



1.25 ± 0.1

Weight: 6.2mg (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).

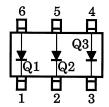
* : This is absolute maximum rating of single diode (Q1 or Q2 or Q3). In the case of using 2 ro 3 diodes, the absolute maximum ratings per diodes is 75 % of the single diode one.

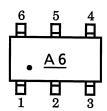
Electrical Characteristics (Q1, Q2, Q3 Common, Ta = 25°C)

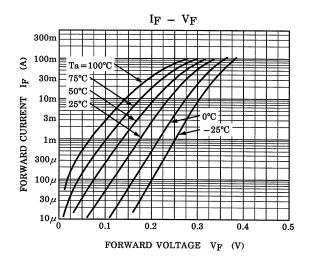
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.18	_		
	V _{F (2)}	_	I _F = 5mA	_	0.23	0.30	V	
	V _{F (3)}	_	I _F = 100mA	_	0.35	0.50		
Reverse current	I _R	_	V _R = 10V	_	_	20	μΑ	
Total capacitance	C _T	_	$V_R = 0$, $f = 1MH_Z$		20	40	pF	

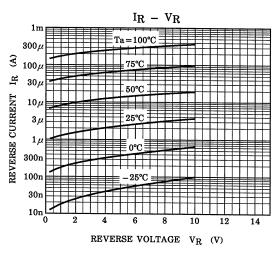
Pin Assignment (Top View)

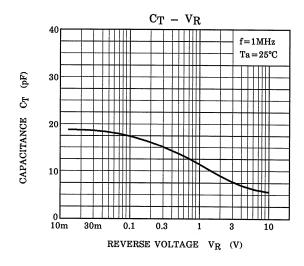
Marking

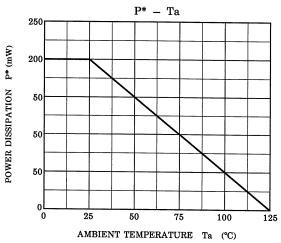












* : Total Rating

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