查询HN2S01FU_07供应商 TOSHIBA

HN2S01FU

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

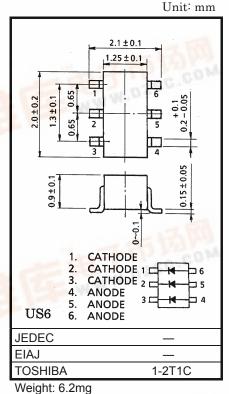
HN2S01FU

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	VR	10	V	
Maximum (peak) forward current	I _{FM}	200 *	mA	
Average forward current	Ι _Ο	100 *	mA	
Surge current (10ms)	I _{FSM}	1 *	A	
Power dissipation	Р	200 *	mW	
Junction temperature	Тј	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).

* : 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)

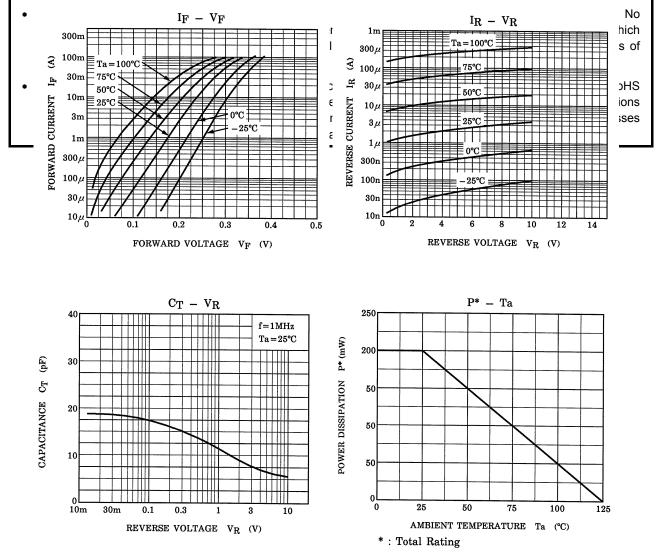
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V _{F (1)}	_	I _F = 1mA	da	<mark>0</mark> .18		COPA
	V _{F (2)}	_	I _F = 5mA	Tur	0.23	0.30	V
	V _{F (3)}		I _F = 100mA	-	0.35	0.50	
Reverse current	IR		V _R = 10V	_	_	20	μA
Total capacitance	Ст	140;	V _R = 0, f = 1MH _z	_	20	40	pF

48 9 WWW

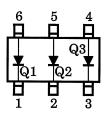
stress. It is the responsibility of the buyer, when utilizing IOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.

TO SHITBAr designs, please ensure that TOSHIBA products are used within specified oper**HN 2609** For set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc.

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Marking

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