TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

HN2S02JE

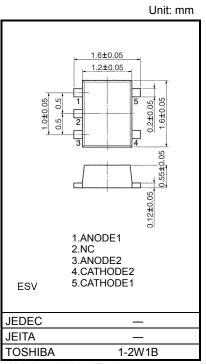
High-speed Switching Applications

- HN2S02JE is composed of two independent diodes.
- Low forward voltage: V_{F (3)} = 0.54V (typ.)
- Low reverse current: I_R = 5μA (max.)

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	45	V
Reverse voltage	V _R	40	٧
Maximum (peak) forward current	I _{FM}	300 *	mA
Average forward current	I _O	100 *	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
Operating temperature range	T _{opr}	−40~100	°C

^{* :} Unit rating (Total rating = unit rating × 1.5)

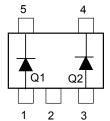


Weight: 0.003g (Typ.)

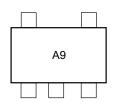
Electrical Characteristics (Q1, Q2, Q3 Common, Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.28	_	_	
	V _{F (2)}	_	I _F = 10mA	_	0.36	_	V	
	V _{F (3)}	_	I _F = 100mA	_	0.54	0.60		
Reverse current	I _R	_	V _R = 40V			5	μΑ	
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	_	18	_	pF	

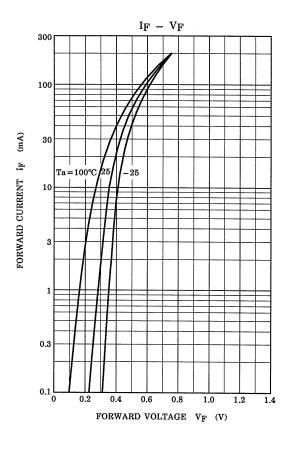
Pin Assignment (Top View)

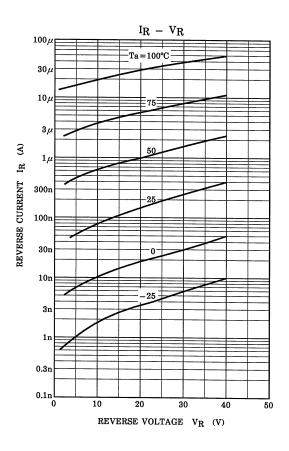


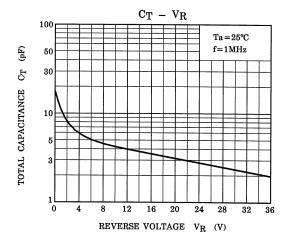
Marking

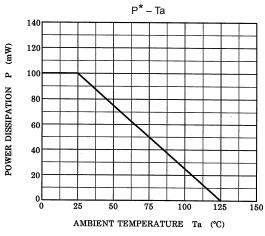


^{** :}Total rating









*:Total Rating

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