

HN2D01JE

Ultra High Speed Switching Application

- The HN2D01JE is composed of 2 independent diodes.
- Low forward voltage : $V_F(3) = 0.98V$ (typ.)
- Fast reverse recovery time : $t_{rr} = 1.6ns$ (typ.)
- Small total capacitance : $C_T = 0.5pF$ (typ.)

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Maximum (peak) forward current	I_{FM}	200 *	mA
Average forward current	I_O	100 *	mA
Surge current (10ms)	I_{FSM}	1 *	A
Power dissipation	P	100 **	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55~150	°C

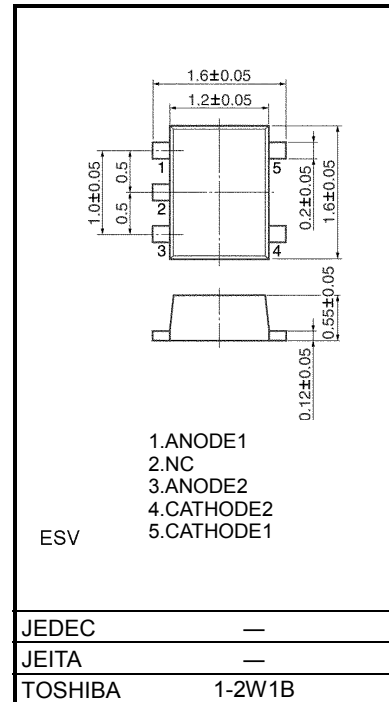
*: Unit rating; total rating = unit rating \times 1.5.

**: Total rating.

Electrical Characteristics (Ta = 25°C)

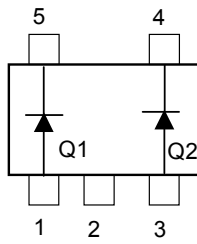
Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F(1)$	—	$I_F = 1mA$	—	0.62	—	V
	$V_F(2)$	—	$I_F = 10mA$	—	0.75	—	
	$V_F(3)$	—	$I_F = 100mA$	—	0.98	1.20	
Reverse current	$I_R(1)$	—	$V_R = 30V$	—	—	0.1	μA
	$I_R(2)$	—	$V_R = 80V$	—	—	0.5	
Total capacitance	C_T	—	$V_R = 0, f = 1MHz$	—	0.5	—	pF
Reverse recovery time	t_{rr}	—	$I_F = 10mA, Fig.1$	—	1.6	—	ns

Unit: mm



Weight: 0.003 mg (typ.)

Pin Assignment (Top View)



Marking

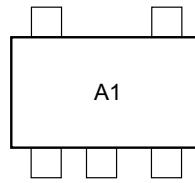
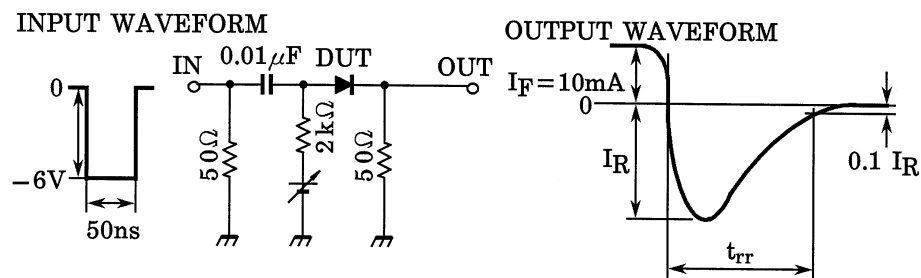
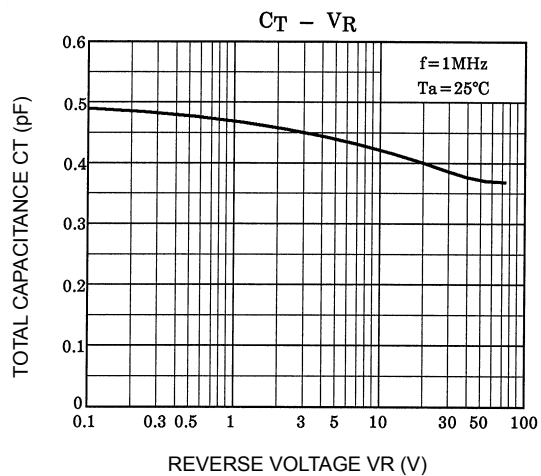
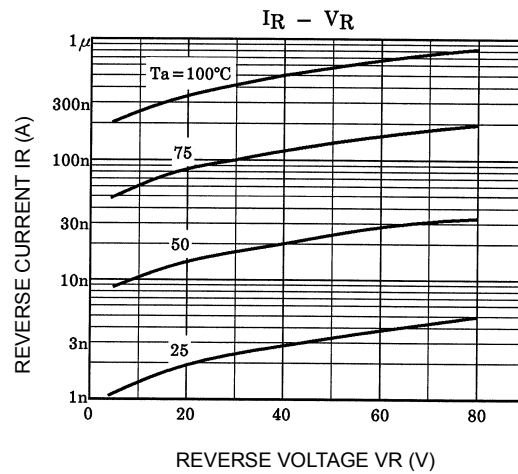
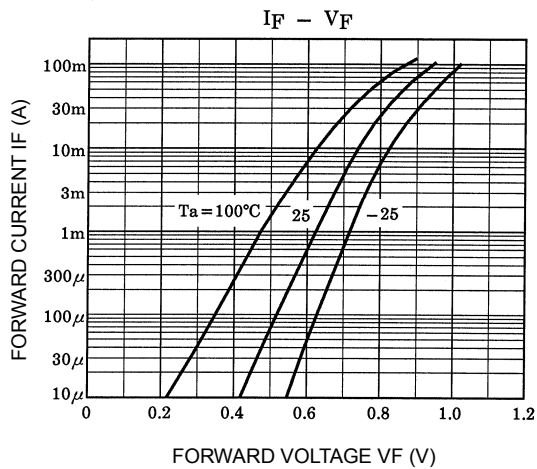


Fig. 1 Reverse Recovery Time (t_{rr}) Test Circuit





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