

HN2S05FU

High-Speed Switching Applications

- The HN2S05FU is composed of three (3) independent diodes.
- Excellent forward current and forward voltage characteristics:
 $V_F = 0.23 \text{ V (typ.) @ } I_F = 5 \text{ mA}$

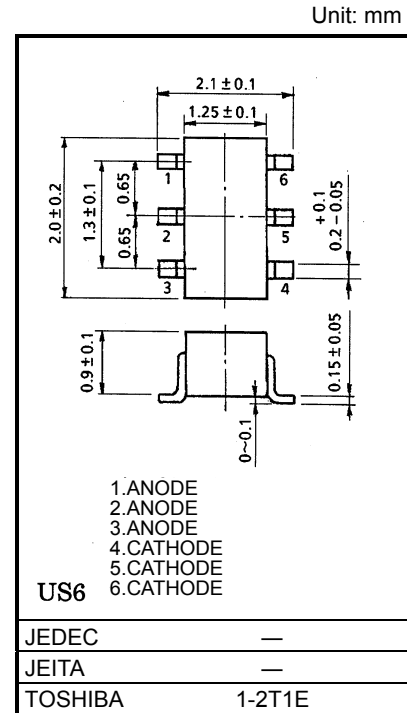
Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	15	V
Reverse voltage	V_R	10	V
Maximum (peak) forward current	I_{FM}	200 *	mA
Average forward current	I_O	100 *	mA
Surge current (10 ms)	I_{FSM}	1 *	A
Power dissipation	P	100	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55~125	°C
Operating temperature range	T_{opr}	-40~110	°C

* : This is the maximum rating for a single diode (Q1, Q2 or Q3).

Where two or three diodes are used, the maximum rating per diode is 75% that for a single diode.

** :Total rating

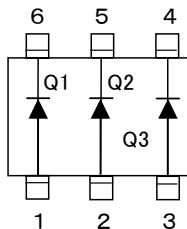


Weight: 6.2 mg (typ.)

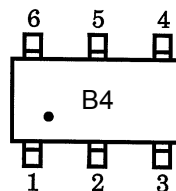
Electrical Characteristics (Q1, Q2, Q3 Common, Ta = 25°C)

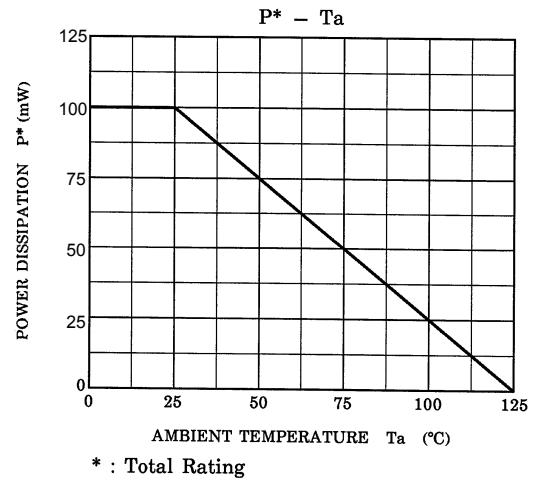
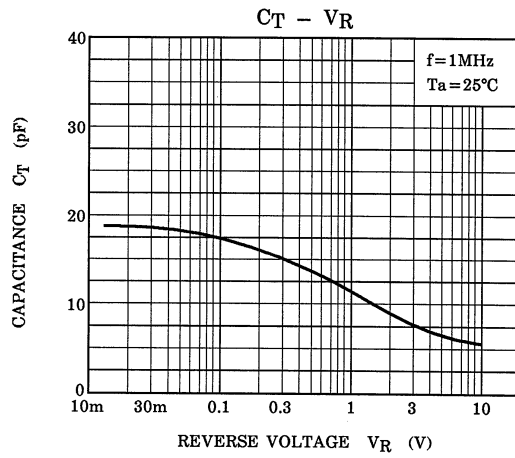
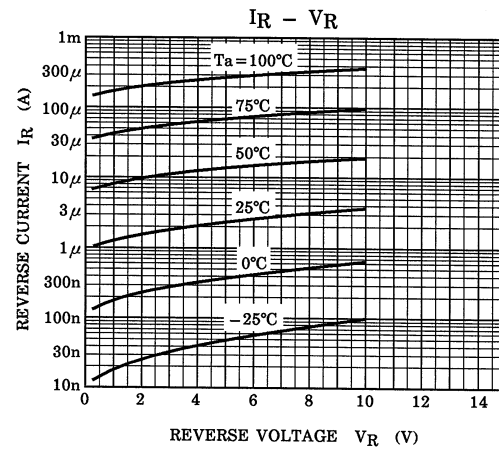
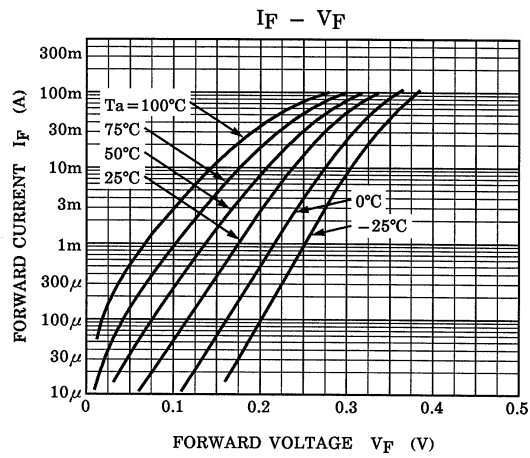
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F (1)$	$I_F = 1 \text{ mA}$	—	0.18	—	V
	$V_F (2)$	$I_F = 5 \text{ mA}$	—	0.23	0.30	
	$V_F (3)$	$I_F = 100 \text{ mA}$	—	0.35	0.50	
Reverse current	I_R	$V_R = 10 \text{ V}$	—	—	20	μA
Total capacitance	C_T	$V_R = 0, f = 1 \text{ MHz}$	—	5	—	pF

Pin Assignment (top view)



Marking





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