

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

HN2S01FU

LOW VOLTAGE HIGH SPEED SWITCHING APPLICATION

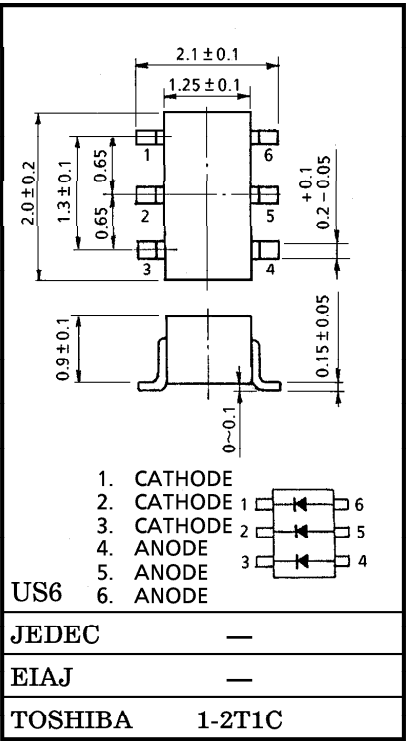
Unit in mm

- HN2S01F is composed of 3 independent diodes.
- Low Forward Voltage :  $V_F=0.23V$  (TYP.) @  $I_F=5mA$

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 (10ms)	$I_{FSM}$	1*	A
Power Dissipation	P	200	mW
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_{stg}$	-55~125	°C
Operating Temperature Range	$T_{opr}$	-40~100	°C

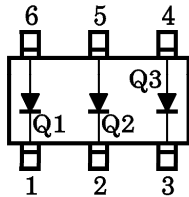
\* : This is the Maximum Ratings of single diode (Q1 or Q2 or Q3).  
In the case of using 2 or 3 diodes, the Maximum Ratings per diode is 75% of the single diode one.



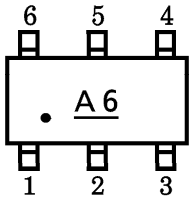
ELECTRICAL CHARACTERISTICS (Q1, Q2, Q3 COMMON Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$ (1)	$I_F=1mA$	—	0.18	—	V
	$V_F$ (2)	$I_F=5mA$	—	0.23	0.30	
	$V_F$ (3)	$I_F=100mA$	—	0.35	0.50	
Reverse Current	$I_R$	$V_R=10V$	—	—	20	$\mu A$
Total Capacitance	$C_T$	$V_R=0, f=1MHz$	—	20	40	pF

PIN ASSIGNMENT (TOP VIEW)



MARKING



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