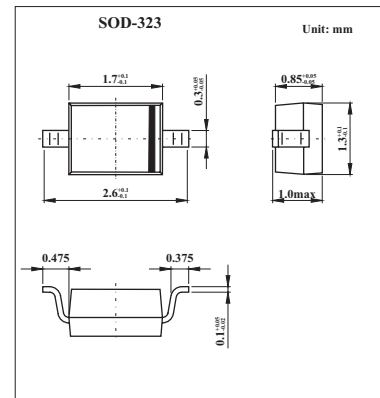


Schottky Barrier Diodes

KAT54HT1(BAT54HT1)

■ Features

- Extremely Fast Switching Speed.
- Pb-Free Package is Available.

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	200	mA
Repetitive peak forward current	I_{FRM}	300	mA
Non-repetitive peak forward current($t < 1.0$ s)	I_{FSM}	600	mA
power dissipation	P_D	200	mW
Thermal resistance, junction-to-ambient	$R_{\theta JA}$	635	$^\circ\text{C}/\text{W}$
Junction and Storage temperature	$T_{J, Tstg}$	-55 to 125	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 10 \mu\text{A}$	30			V
Total capacitance	C_T	$V_R = 1.0 \text{ V}, f = 1.0 \text{ MHz}$		7.6	10	pF
Reverse leakage	I_R	$V_R = 25 \text{ V}$		0.5	2.0	μA
Forward voltage	V_F	$I_F = 0.1 \text{ mA}$		0.22	0.24	V
		$I_F = 30 \text{ mA}$		0.41	0.5	V
		$I_F = 100 \text{ mA}$		0.52	0.8	V
Reverse recovery time	t_{rr}	$I_F = I_R = 10 \text{ mA}, I_{R(REC)} = 1.0 \text{ mA}$			5.0	ns

■ Marking

Marking	JV