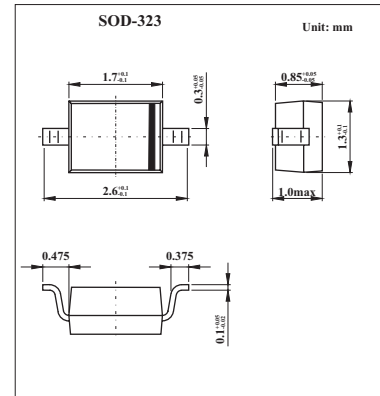


## Schottky Barrier Diodes

## KAT54HT1(BAT54HT1)

## ■ Features

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



## ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	30	V
Forward current	I <sub>F</sub>	200	mA
Repetitive peak forward current	I <sub>FRM</sub>	300	mA
Non-repetitive peak forward current(t<1.0 s)	I <sub>FSM</sub>	600	mA
power dissipation	P <sub>D</sub>	200	mW
Thermal resistance, junction-to-ambient	R <sub>θJA</sub>	635	°C/W
Junction and Storage temperature	T <sub>J,Tstg</sub>	-55 to 125	°C

## ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V <sub>(BR)R</sub>	I <sub>R</sub> = 10 μA	30			V
Total capacitance	C <sub>T</sub>	V <sub>R</sub> = 1.0 V, f = 1.0 MHz		7.6	10	pF
Reverse leakage	I <sub>R</sub>	V <sub>R</sub> = 25 V		0.5	2.0	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 0.1 mA		0.22	0.24	V
		I <sub>F</sub> = 30 mA		0.41	0.5	V
		I <sub>F</sub> = 100 mA		0.52	0.8	V
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> = 10 mA, I <sub>R(REC)</sub> = 1.0 mA			5.0	ns

## ■ Marking

Marking	JV