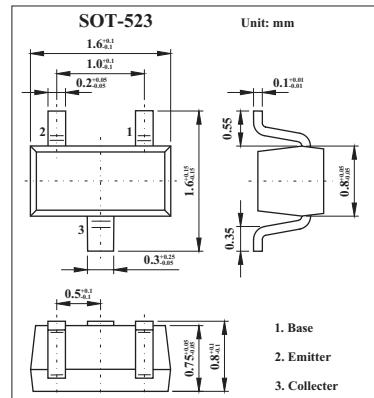


## Switching Diode

### BAT54T;BAT54AT BAT54CT;BAT54ST

#### ■ Features

- Ultra-small surface mount package
- Low forward voltage drop
- Fast switching
- PN junction guard ring for transient and ESD protection
- Available in lead free version



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V <sub>RM</sub>	30	V
DC Blocking Voltage	V <sub>R</sub>		
Average Rectified Output Current	I <sub>O</sub>	200	mA
Power Dissipation	P <sub>d</sub>	150	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>STG</sub>	-65 to +150	°C

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Max	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> = 100 μA	30		V
Reverse voltage leakage current	I <sub>R</sub>	V <sub>R</sub> = 25V		2	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 0.1 mA		240	mV
		I <sub>F</sub> = 1 mA		320	
		I <sub>F</sub> = 10 mA		400	
		I <sub>F</sub> = 30 mA		500	
		I <sub>F</sub> = 100 mA		1000	
Total capacitance	C <sub>T</sub>	V <sub>R</sub> = 1V, f=1MHz		10	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> = 10mA, I <sub>R</sub> = 10mA ~ 1mA, R <sub>L</sub> = 100 Ω		5	ns

#### ■ Marking

Type	BAT54T	BAT54AT	BAT54CT	BAT54ST
Marking	L1	L2	L3	L4