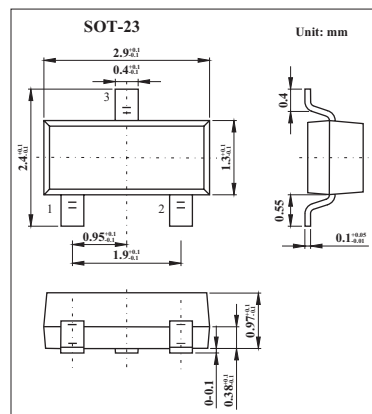


## BAT754 series

### ■ Features

- Ultra high switching speed
- Guard ring protected
- Small plastic SMD package
- Low diode capacitance.



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

Parameter	Symbol	Conditions	Min	Max	Unit
Continuous reverse voltage	$V_R$			30	V
Continuous forward current	$I_F$			200	mA
Repetitive peak forward current	$I_{FRM}$	$t_p < 1 \text{ s}; \delta < 0.5$		300	mA
Non-repetitive peak forward current	$I_{FSM}$	$t_p = 8.3 \text{ ms}$ half sinewave; JEDEC method		600	mA
Storage temperature	$T_{stg}$		-65	+150	$^\circ\text{C}$
Junction temperature	$T_j$			125	$^\circ\text{C}$
Operating ambient temperature	$T_{amb}$		-65	+125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Min	Max	Unit
Forward voltage	$V_F$	$I_F = 0.1 \text{ mA}$		200	mV
		$I_F = 1 \text{ mA}$		260	mV
		$I_F = 10 \text{ mA}$		340	mV
		$I_F = 30 \text{ mA}$		420	mV
		$I_F = 100 \text{ mA}$	600		mV
Reverse current	$I_R$	$V_R = 25 \text{ V}$ ; Note 1		2	$\mu\text{A}$
Diode capacitance	$C_d$	$f = 1 \text{ MHz}$ ; $V_R = 1 \text{ V}$		10	pF

Note

1. Pulse test:  $t_p < 300 \mu\text{s}$ ;  $\delta \leq 0.02$ .

### ■ Marking

Type	BAT754	BAT754A	BAT754C	BAT754S
Marking	2K	2L	2M	2N