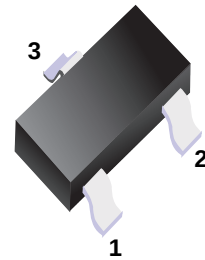


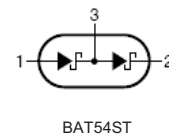
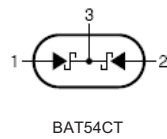
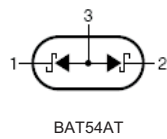
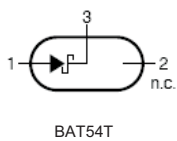
■ Schottky Diodes

■ Features

- Low forward voltage
- Guard ring protected
- Small plastic SMD package.



■ Simplified outline(SOT-523)



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

Parameter	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current Pulse width = 1.0 second	I_{FSM}	600	mA
Power Dissipation	P_D	150	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	667	$^{\circ}\text{C}/\text{W}$
Storage Temperature Range	T_{stg}	-55 to +125	$^{\circ}\text{C}$
Operating Junction Temperature	T_J	125	$^{\circ}\text{C}$

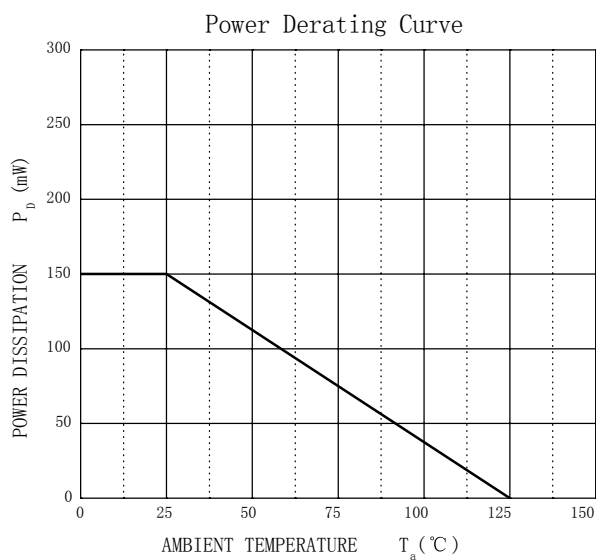
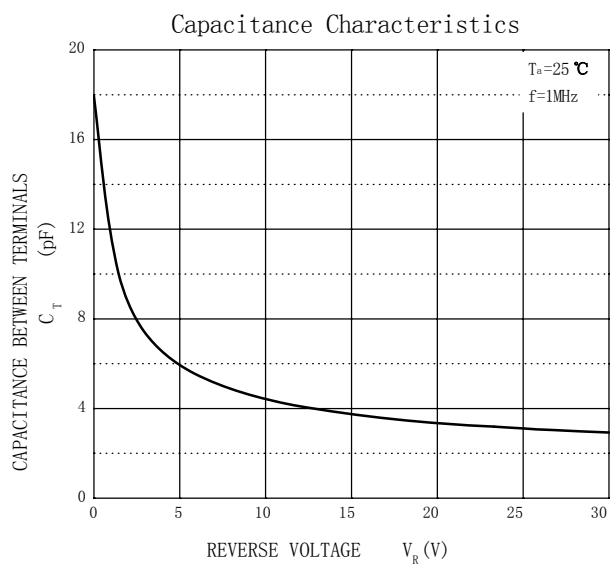
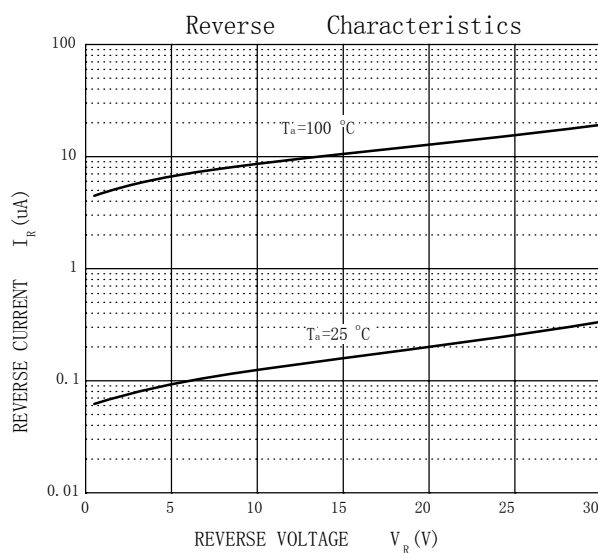
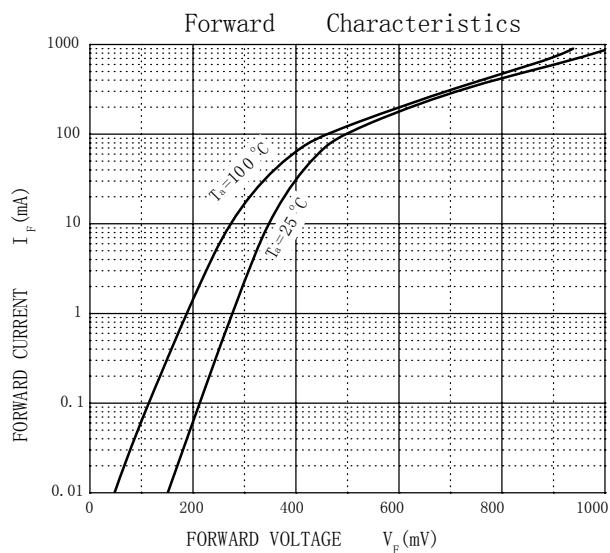
■ Electrical Characteristics $T_a = 25^{\circ}\text{C}$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Breakdown Voltage	V_R	$I_R = 100 \mu\text{A}$	30			V
Forward Voltage	V_F	$I_F = 0.1 \text{ mA}$			240	mV
		$I_F = 1 \text{ mA}$			320	mV
		$I_F = 10 \text{ mA}$			400	mV
		$I_F = 30 \text{ mA}$			500	mV
		$I_F = 100 \text{ mA}$			0.8	V
Reverse Current	I_R	$V_R = 25 \text{ V}$			2	μA
Total Capacitance	C_T	$V_R = 1\text{V}, f = 1.0 \text{ MHz}$			10	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10 \text{ mA}, I_{RR} = 1.0 \text{ mA}, R_L = 100\Omega$			5	ns

■ Marking

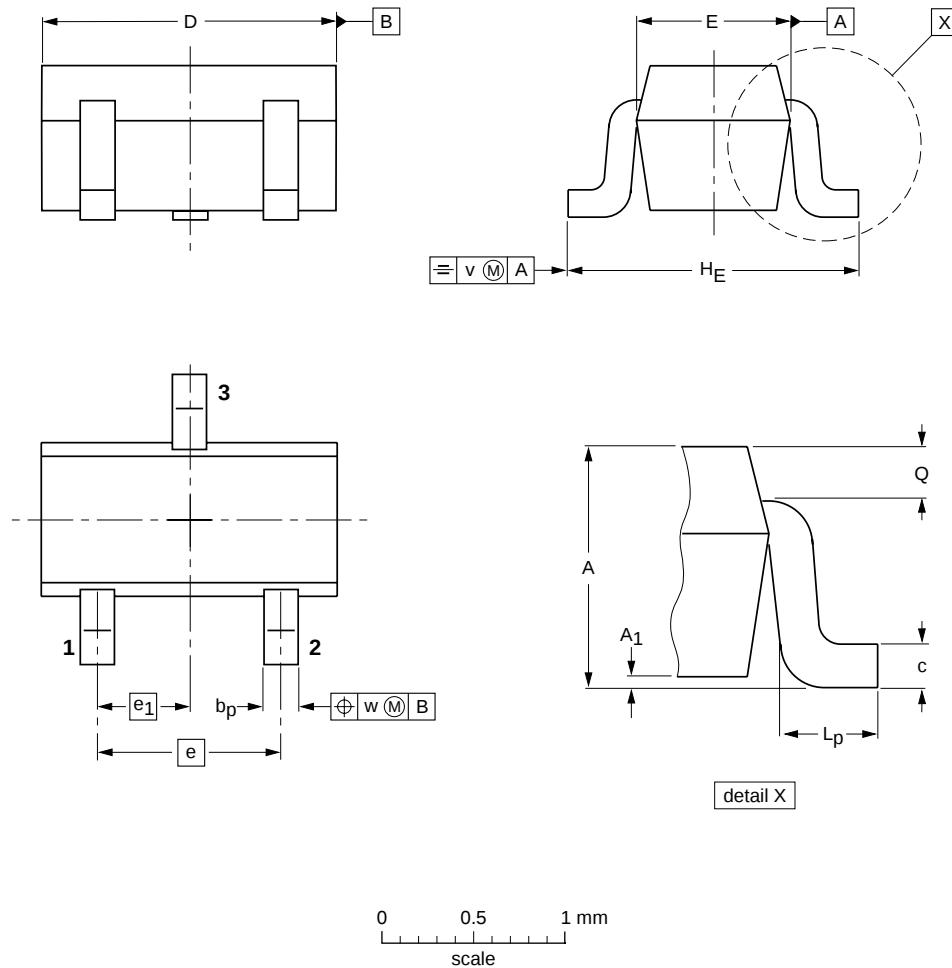
TYPE	BAT54T	BAT54AT	BAT54CT	BAT54ST
Marking	L1	L2	L3	L4

■ Typical Characteristics



Package Outline

SOT-523



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	0.95 0.60	0.1	0.30 0.15	0.25 0.10	1.8 1.4	0.9 0.7	1	0.5	1.75 1.45	0.45 0.15	0.23 0.13	0.2	0.2

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOT-523	Tape/Reel, 7" reel	3000	EIA-481-1

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