

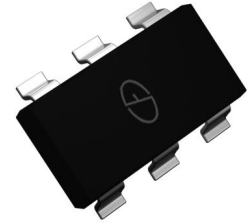
## 200mA,30V Schottky Barrier Diode Array

### Features

- Fast Switching Speed
- Low Forward Voltage Drop
- Halogen-free、RoHS Compliant
- Surface Mount Package



**RoHS**  
COMPLIANT



### Marking:

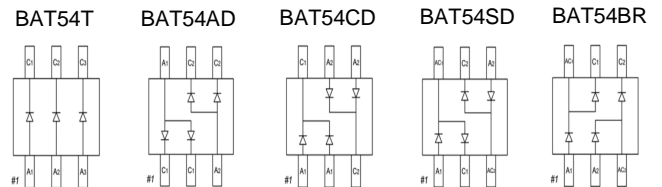
BAT54T :KLA  
BAT54AD: KL6 BAT54SD: KL8  
BAT54CD: KL7 BAT54BR: KLB

**SOT-363**

### Mechanical Data

- Voltage Clamping
- Reverse Polarity Protection
- High Speed Switching

### Pin definition

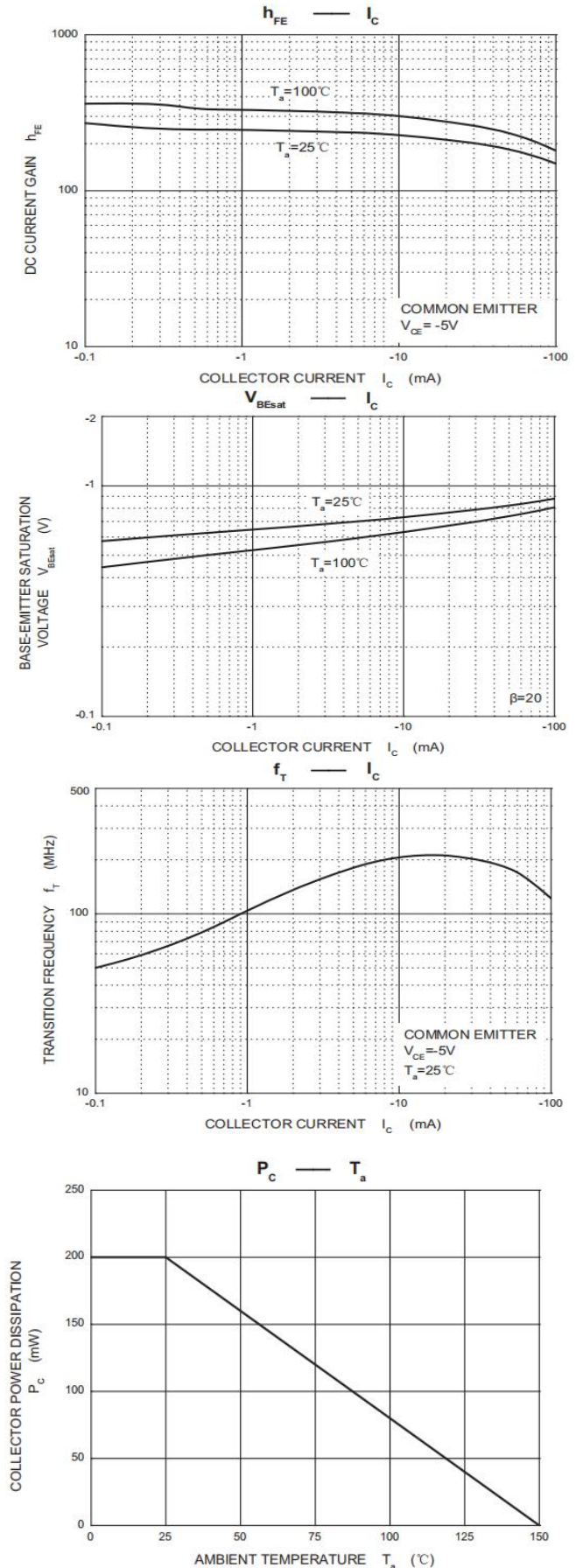
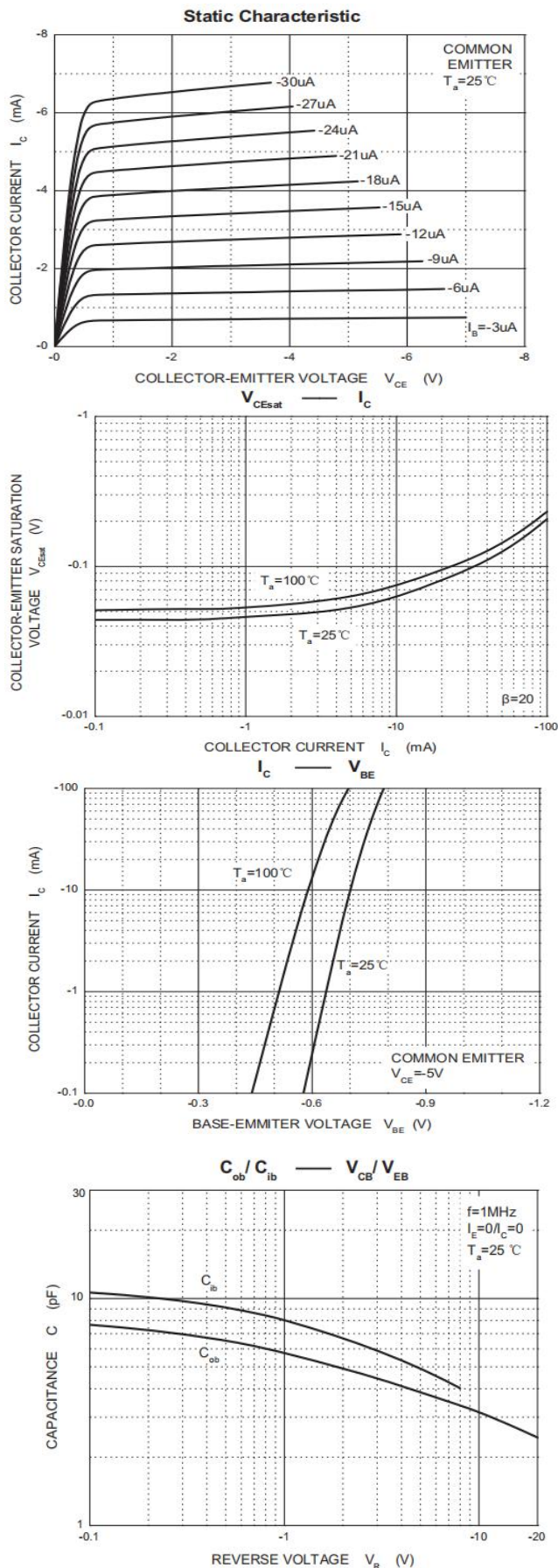


Maximum Ratings & Electrical Characteristics (T <sub>A</sub> =25°C unless otherwise noted)							
Parameter	Symbol	BAT54T	BAT54AD	BAT54CD	BAT54SD	BAT54BR	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>			30			V
Repetitive Peak Forward Current	I <sub>FRM</sub>			300			mA
Non-repetitive Peak Forward Current	I <sub>FM</sub>			200			mA
Non-Repetitive Peak Forward Surge Current @ t<1.0s	I <sub>FSM</sub>			600			mA
Power Dissipation	P <sub>D</sub>			200			mW
Junction-to-Ambient Thermal Resistance	R <sub>ΘJA</sub>			625			°C/W
Junction and Storage Temperature	T <sub>J</sub> T <sub>STG</sub>			-65~+150			°C

Electrical Specifications (T <sub>A</sub> =25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Limits			Unit
			Min	Typ	Max	
Forward Voltage per Diode(Note1)	V <sub>F</sub>	I <sub>F</sub> = 0.1mA, T <sub>J</sub> = 25°C			0.24	V
		I <sub>F</sub> = 1mA, T <sub>J</sub> = 25°C			0.32	V
		I <sub>F</sub> = 10mA, T <sub>J</sub> = 25°C			0.40	V
		I <sub>F</sub> = 30mA, T <sub>J</sub> = 25°C			0.50	V
		I <sub>F</sub> = 100mA, T <sub>J</sub> = 25°C			1.00	V
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =100μA, T <sub>J</sub> = 25°C	30			
Reverse Current @ Rated V <sub>R</sub> per Diode(Note2)	I <sub>R</sub>	V <sub>R</sub> =25V, T <sub>J</sub> = 25°C			2	uA
Total Capacitance	C <sub>T</sub>	1MHz, V <sub>R</sub> =1V	0.5		10	pF
Reverse Recovery Time	T <sub>RR</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, R <sub>L</sub> =100Ω I <sub>RR</sub> =1mA			5	nS

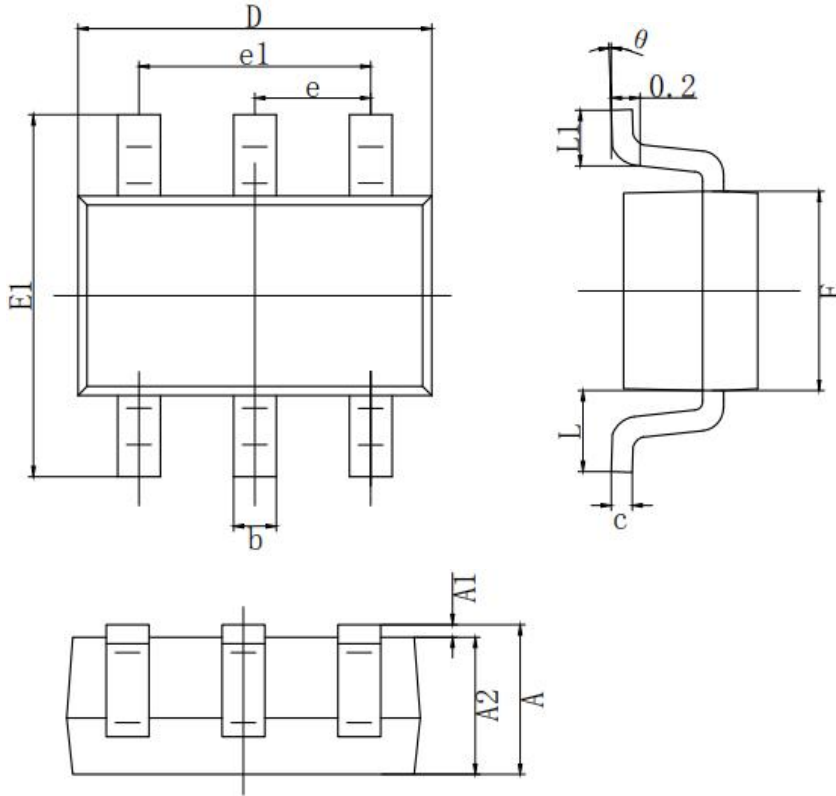
## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  unless otherwise noted)



## Package Outline Dimensions

millimeters



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°

## Revision History

Document Version	Date of release	Description of changes
Rev.A	2019.06.07	First issue

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