

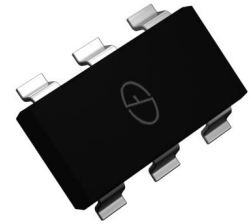
## SOT-363 Plastic-Encapsulate Transistors

### Features

- Two Transistors in One Package
- 200mW; Power Dissipation of 200mW
- High Stability and High Reliability



**RoHS**  
COMPLIANT



### Mechanical Data

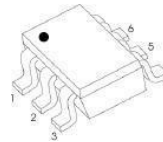
- SOT-363 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

**Marking:** 5Ft

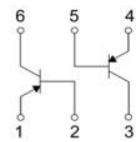
**SOT-363**

**Pin definition**

**Equivalent circuit**



1. Emitter1
2. Base1
3. Collector2
4. Emitter2
5. Base2
6. Collector1



### Maximum Ratings & Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	-80	V
Collector-Emitter Voltage	$V_{CEO}$	-65	V
Emitter -Base Voltage	$V_{EBO}$	-5	V
Collector Current-Continuous	$I_C$	-100	mA
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{stg}$	-55+150	°C
Thermal resistance From junction to ambient	$R_{\theta JA}$	625	°C/W

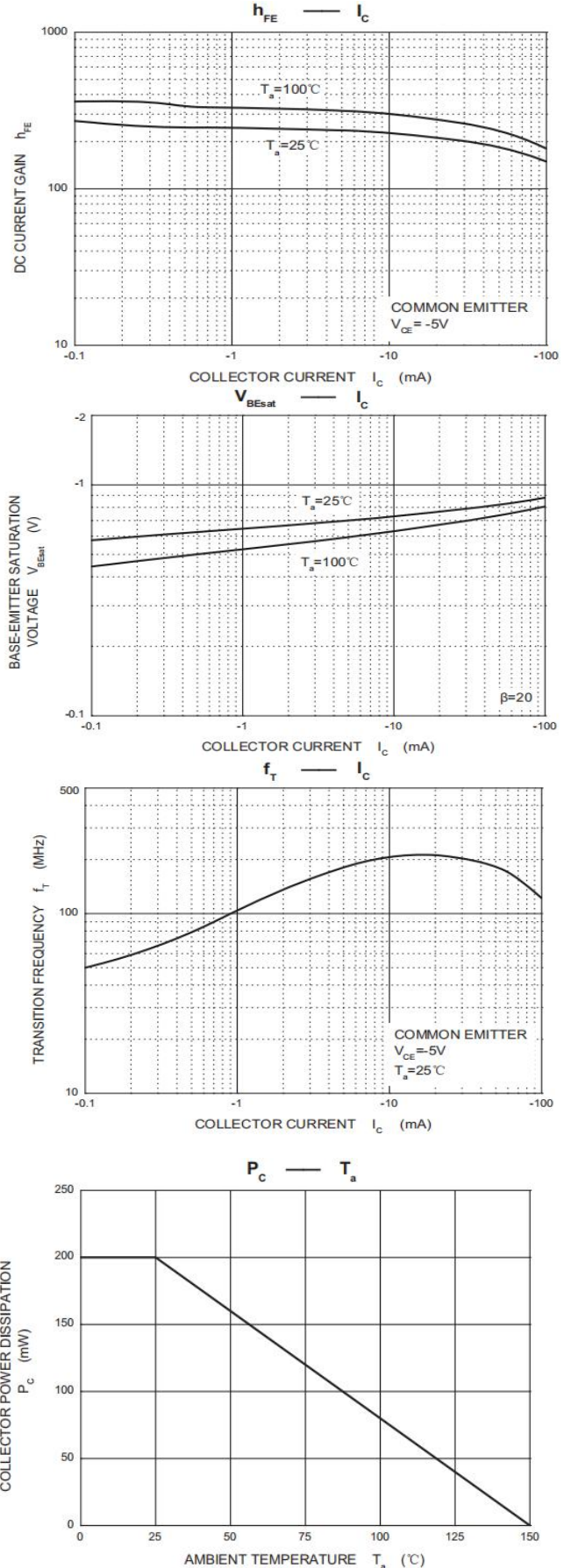
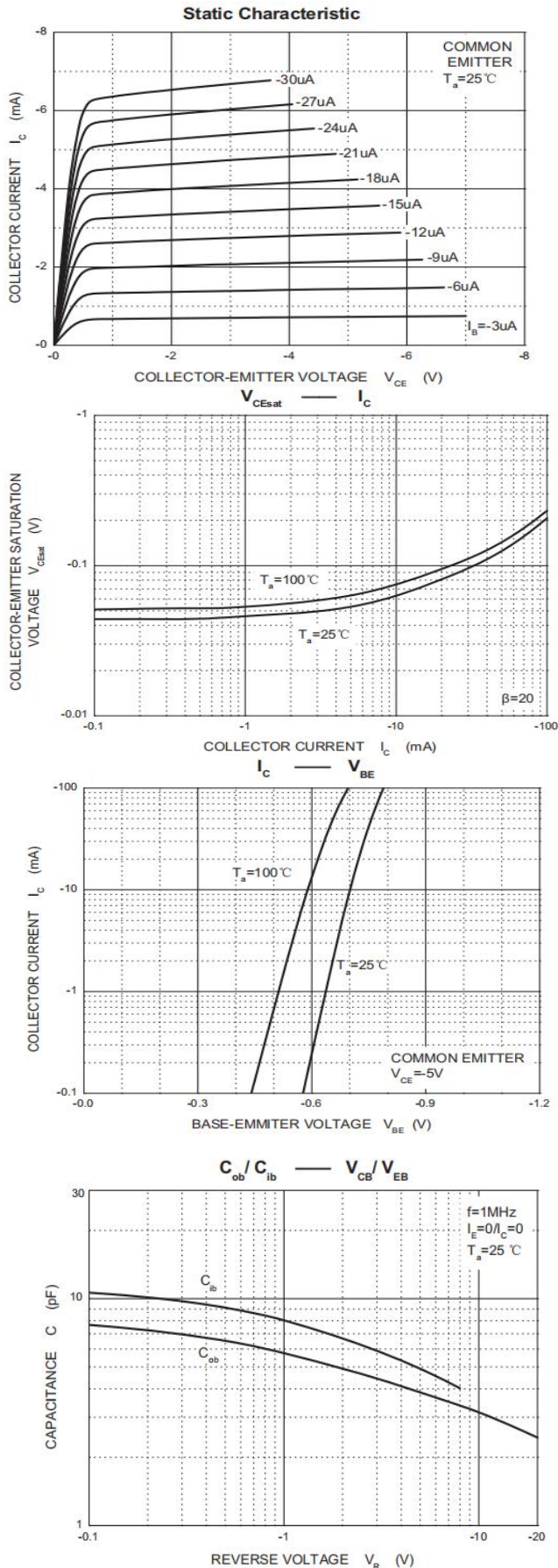
### Electrical Specifications (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Limits			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-65			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -30V, I_E = 0$			-15	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-15	nA
DC current gain	$h_{FE}$	$V_{CE} = -5V, I_C = -2mA$	110			
Collector-emittersaturation voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -0.5mA$			-0.1	V
		$I_C = -100mA, I_B = -5mA^*$			-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -10mA, I_B = -0.5mA$		-0.7		V
Output Capacitance	$C_{obo}$	$V_{CB} = -10V, f = 1MHz, I_E = 0$			2.5	pF
Current Gain-Bandwidth product	$f_T$	$V_{CE} = -5V, I_C = -10mA, f = 1MHz$	100			MHz

\*pulse test:  $PW \leq 350\mu S, \delta \leq 2\%$ .

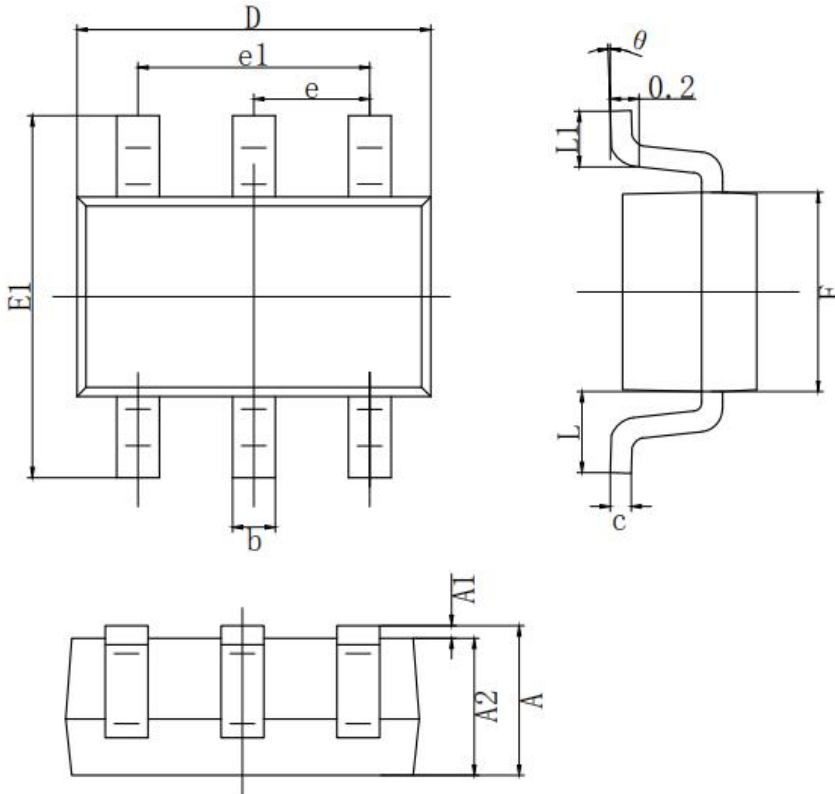
## Ratings and Characteristics Curves

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



## Package Outline Dimensions

in inches (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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