

# SOT-363 Plastic-Encapsulate Transistors

#### **Features**

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

### **Mechanical Data**

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

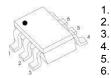




Marking: 5Ft

**Pin definition** 

SOT-363 Epuivalent circuit



Emitter1 6 5 Base1 Collector2 Emitter2 Base2 Collector1 1 2

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	Value	Unit	
Collector-Base Voltage	V <sub>CBO</sub>	-80	V	
Collector-Emitter Voltage	V <sub>CEO</sub>	-65	V	
Emitter -Base Voltage	V <sub>EBO</sub>	-5	V	
Collector Current-Continuous	Ι <sub>C</sub>	-100	mA	
Collector Power Dissipation	Pc	200	mW	
Junction Temperature	TJ	150	°C	
Storage Temperature	Tstg	-55-+150	°C	
Thermal resistance From junction to ambient	R <sub>θJA</sub>	625	°C/W	

Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Limits			Unit
			Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =-10μΑ,I <sub>E</sub> =0	-80			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-10mA,I <sub>B</sub> =0	-65			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-10μΑ,I <sub>C</sub> =0	-5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =-30V,I <sub>E</sub> =0			-15	nA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =-5V,I <sub>C</sub> =0			-15	nA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> =-5V,I <sub>C</sub> =-2mA	110			
	V <sub>CE(sat)</sub>	I <sub>C</sub> =-10mA,I <sub>B</sub> =-0.5mA			-0.1	V
Collector-emittersaturation voltage		I <sub>C</sub> =-100mA,I <sub>B</sub> =-5mA*			-0.3	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =-10mA,I <sub>B</sub> =-0.5mA		-0.7		V
Output Capacitance	C <sub>obo</sub>	$V_{CB}$ =-10V,f=1MHz, I <sub>E</sub> =0			2.5	pF
Current Gain-Bandwidth product	f⊤	V <sub>CE</sub> =-5V,	100			MHz
Carronic Carri Banawidin product		I <sub>C</sub> =-10mA,f=1MHz				

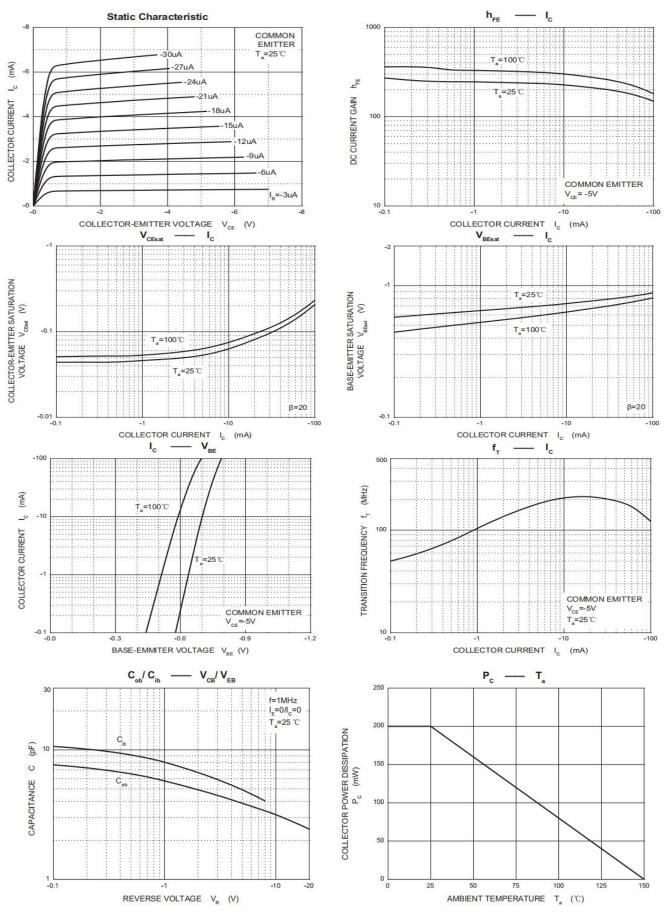
\*pulse test: PW $\leq$ 350µS,  $\delta \leq$ 2%.



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### **Ratings and Characteristics Curves**

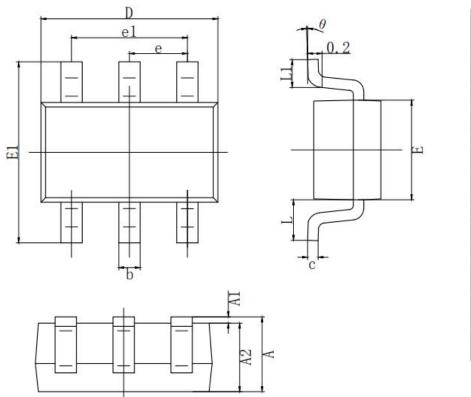
(TA = 25°C unless otherwise noted)





# Package Outline Dimensions

millimeters



	MILLIMETER		
SYMBOL	MIN	MAX	
A	0.900	1.100	
A1	0.000	0. 100	
A2	0.900	1.000	
b	0.150	0.350	
С	0.080	0. 150	
D	2.000	2. 200	
E	1.150	1.350	
E1	2.150	2.450	
e	0.650 TYP.		
el	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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