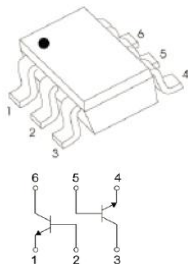


SOT-363

Marking: 1C
特征 Features

- This device is designed for general purpose amplifier applications
- High Stability and High Reliability

机械数据 Mechanical Data

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

极限值和温度特性(TA = 25°C 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

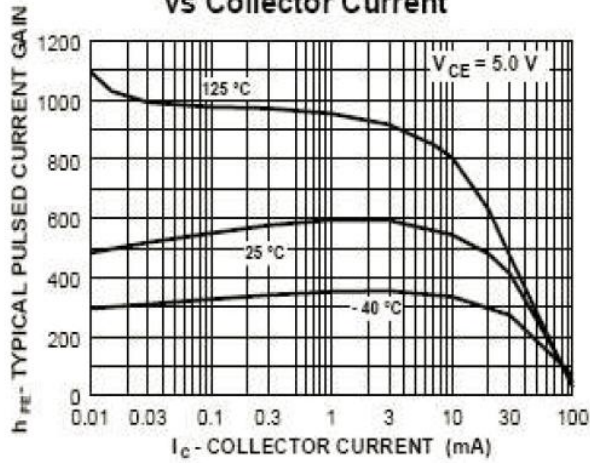
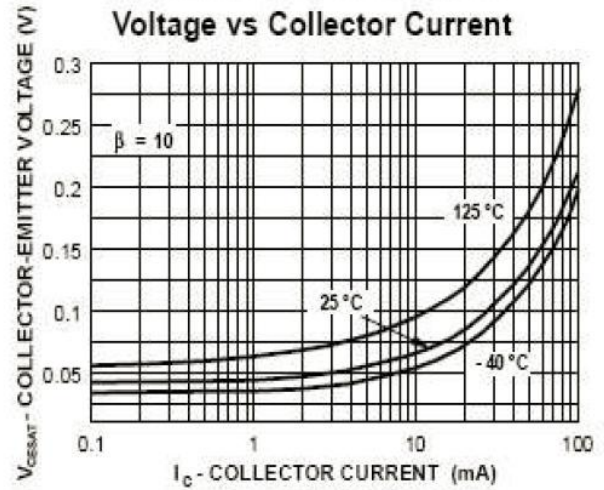
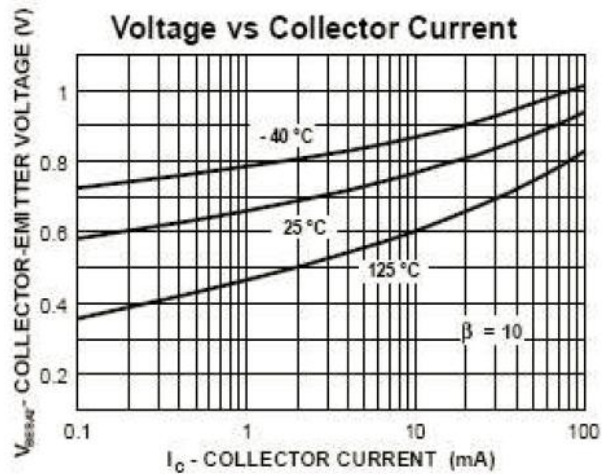
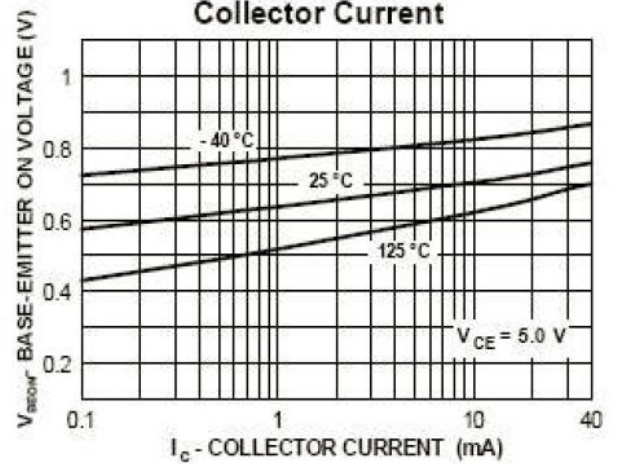
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	45	V
Emitter -Base Voltage	V _{EBO}	6	V
Collector Current-Continuous	I _C	100	mA
Collector Power Dissipation	P _C	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55-+150	°C
Thermal resistance from junction to ambient	R _{θJA}	625	°C/W

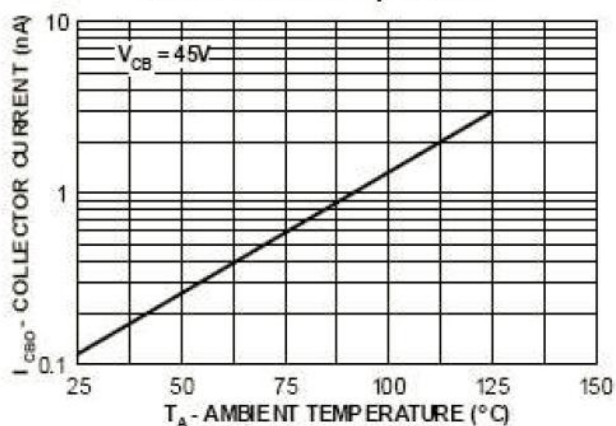
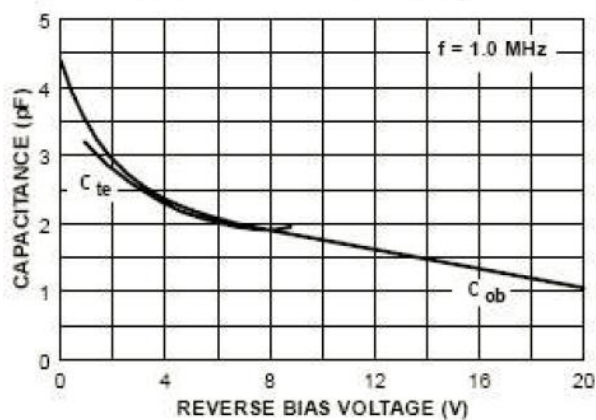
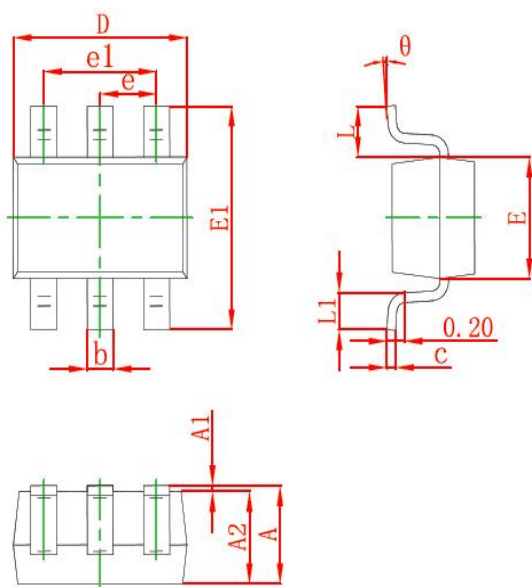
电特性 (TA = 25°C 除非另有规定)

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits			单位 Unit
			Min	Typ	Max	
Collector-base breakdown voltage	V(BR)CBO	I _C =10uA, I _E =0	50			V
Collector-emitter breakdown voltage	V(BR)CEO	I _C =1mA, I _B =0	45			V
Emitter-base breakdown voltage	V(BR)EBO	I _E =10uA, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =30V, I _E =0			15	nA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			15	nA
DC current gain	h _{FE}	V _{CE} =5V, I _C =2mA	110		630	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA, I _B =0.5mA			0.25	V
		I _C =100mA, I _B =5mA			0.65	V
Base -emitter voltage	V _{BE}	V _{CE} =5V, I _C =2mA	0.58		0.70	V
		V _{CE} =5V, I _C =10mA			0.77	V
Transition frequency	f _T	V _{CE} =5V, I _C =20mA, f=100MHz		200		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		2		pF

*Pulse test: pulse width≤300us,duty cycle≤2.0%

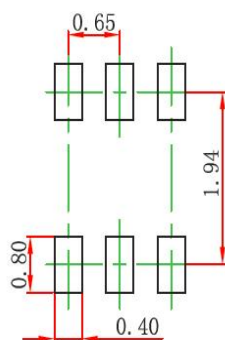
Typical characteristics
**Typical Pulsed Current Gain
vs Collector Current**

**Collector-Emitter Saturation
Voltage vs Collector Current**

**Base-Emitter Saturation
Voltage vs Collector Current**

**Base-Emitter ON Voltage vs
Collector Current**


**Collector-Cutoff Current
vs Ambient Temperature**

**Input and Output Capacitance
vs Reverse Bias Voltage**

SOT-363 PACKAGE OUTLINE Plastic surface mounted package


Symbol	Dimensions In Millimeters	
	Min	Max
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.100	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.400
e	0.650 TYP	
e1	1.200	1.400
L	0.525 REF	
L1	0.260	0.460
θ	0 $^{\circ}$	8 $^{\circ}$

焊盘设计参考Precautions: PCB Design

Recommended land dimensions for SOT-363 diode. Electrode patterns for PCBs


Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

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