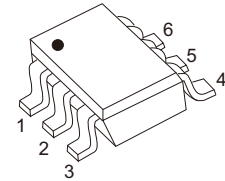


FEATURES

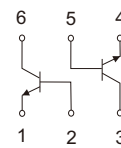
- This device is designed for general purpose amplifier applications
- High Stability and High Reliability

SOT-363



MECHANICAL DATA

- Case: SOT-363
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: 1C



MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

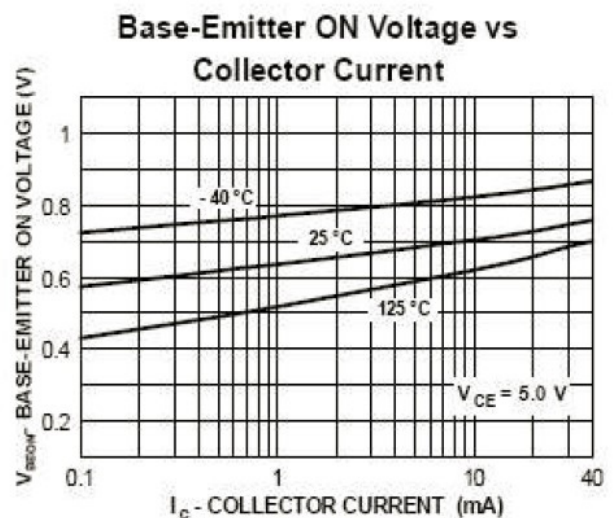
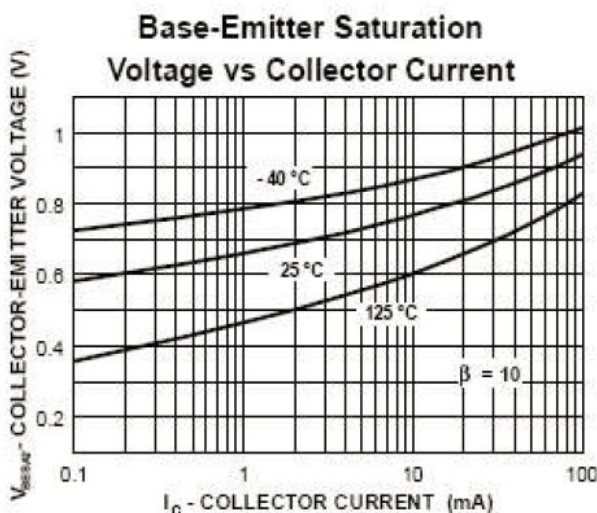
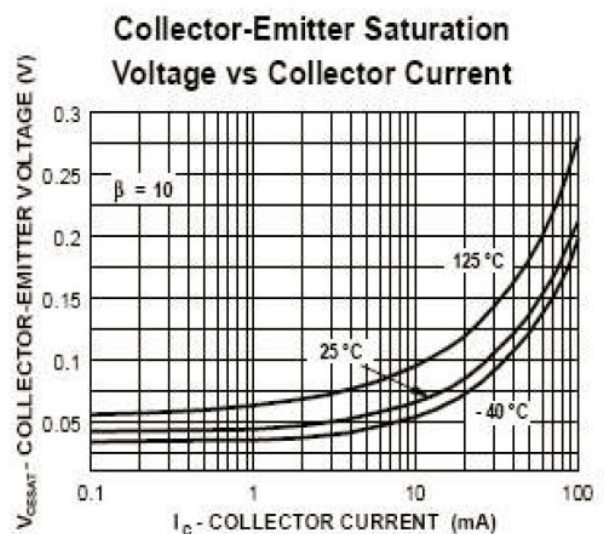
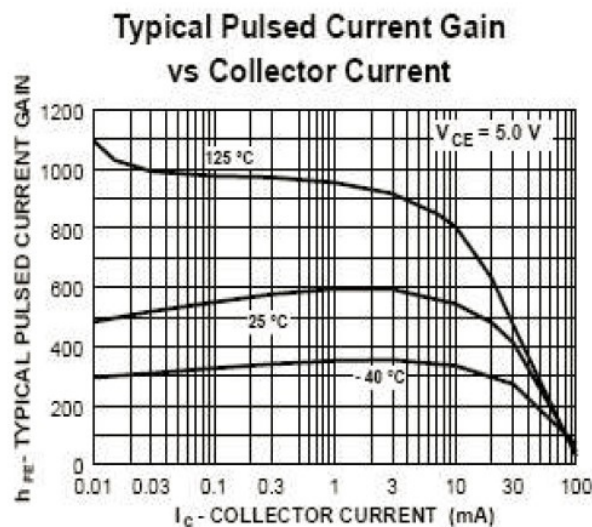
Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CEO}	V	45
Collector-Base Voltage	V_{CBO}	V	50
Emitter-Base Voltage	V_{EBO}	V	6
Collector Current, Continuous	I_C	mA	100
Collector Power Dissipation	P_D	mW	200
Operation Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150
Thermal resistance From junction to ambient	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	625

ELECTRICAL CHARACTERISTICS(T_A=25°C Unless otherwise specified)

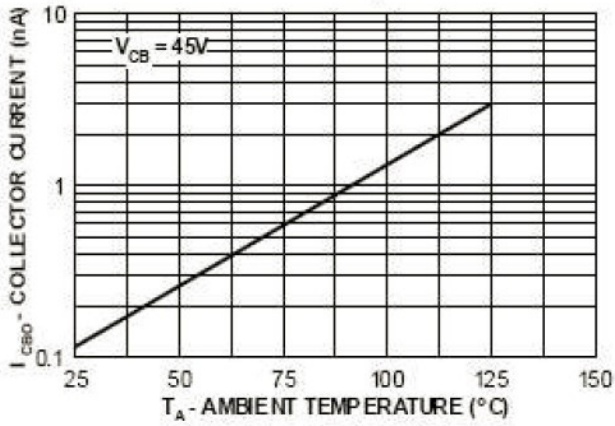
Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	V	I _C =1.0mA, I _B =0	45	---
Collector-Base Breakdown Voltage	V _{(BR)CBO}	V	I _C =10μA, I _E =0	50	---
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	V	I _E =10μA, I _C =0	6	---
Collector cut-off Current	I _{CBO}	nA	V _{CB} =30V, I _E =0	---	15
Emitter cut-off Current	I _{EBO}	nA	V _{EB} =4V, I _C =0	---	15
DC Current Gain	h _{FE}		I _C =2mA, V _{CE} =5V	110	630
Collector-Emitter Saturation Voltage	V _{CE(sat)}	V	I _C =10mA, I _B =0.5mA	---	0.25
			I _C =100mA, I _B =5mA	---	0.65
Base-Emitter Voltage	V _{BE}	V	I _C =2mA, V _{CE} =5.0V	0.58	0.70
			I _C =10mA, V _{CE} =5.0V	---	0.77
Output Capacitance	C _{ob}	pF	V _{CB} =10V, f=1.0MHz, I _E =0	---	2(Typ)
Current Gain-Bandwidth Product	f _T	MHz	I _C =20mA, V _{CE} =5V f=100MHz	200(Typ)	---

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

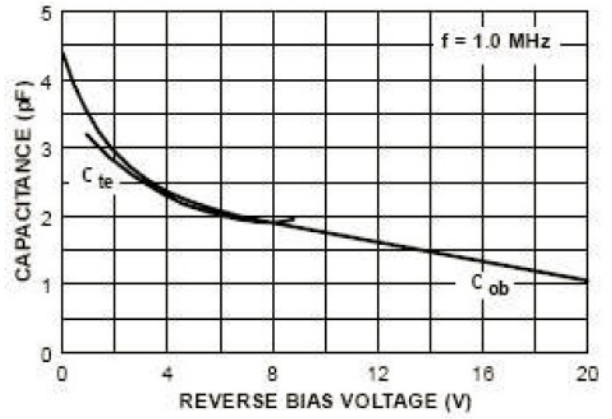
Characteristics(Typical)



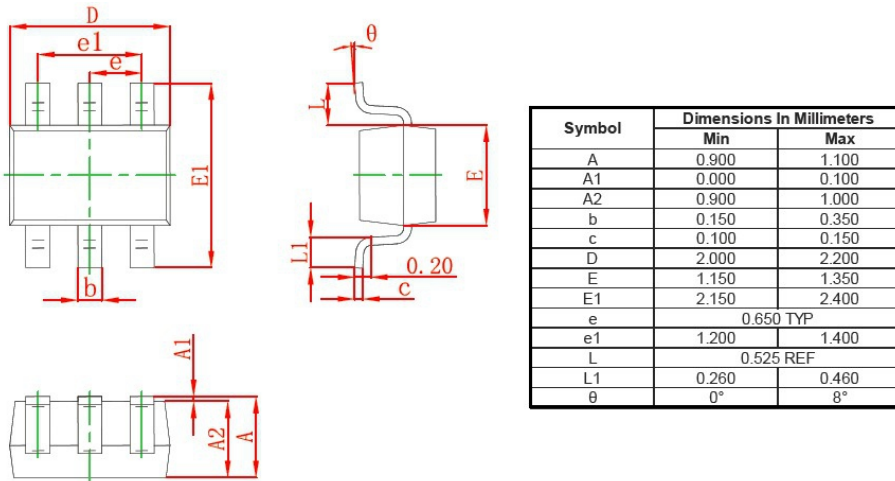
Collector-Cutoff Current vs Ambient Temperature



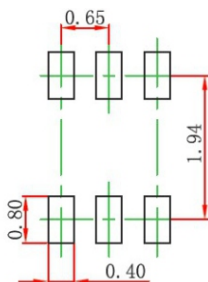
Input and Output Capacitance vs Reverse Bias Voltage



Outline Dimensions



Suggested pad layout



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

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