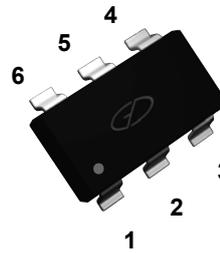
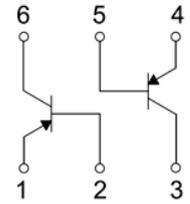


Features

- Dual PNP transistors in one single package
- No mutual interference between the transistors



SOT-363



Schematic Diagram

Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ 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	-0.1	A
Collector Power Dissipation	P_C	0.2	W
Typical Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55 To +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 To +150	$^{\circ}\text{C}$

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-10\mu\text{A}, I_E=0$	-80	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-65	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-10\mu\text{A}, I_C=0$	-5	-	-	V
Collector Cut-off Current	I_{CBO}	$V_{CB}=-30\text{V}, I_E=0$	-	-	-15	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$	-	-	-15	nA
DC Current Gain	h_{FE}	$V_{CE}=-5\text{V}, I_C=-2\text{mA}$	110	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}, I_B=-0.5\text{mA}$	-	-	-0.1	V
		$I_C=-100\text{mA}, I_B=-5\text{mA}^1$	-	-	-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-10\text{mA}, I_B=-0.5\text{mA}$	-	-0.7	-	V
Output Capacitance	C_{obo}	$V_{CB}=-10\text{V}, I_E=0$ $f=1\text{MHz}$	-	-	2.5	pF
Transition Frequency	f_T	$V_{CE}=-5\text{V}, I_C=-10\text{mA},$ $F=100\text{MHz}$	100	-	-	MHz

Note:

1. pulse test: $PW \leq 350\mu\text{s}, \delta \leq 2\%$.

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

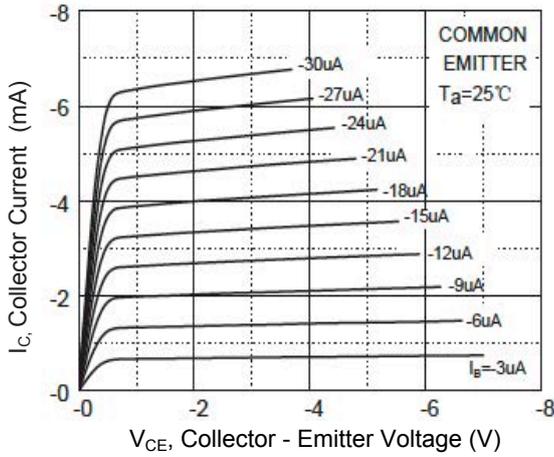


Figure 1. Static Characteristics

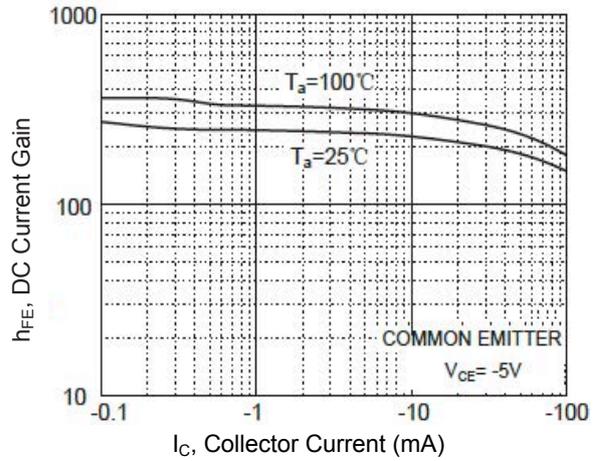


Figure 2. h_{FE} vs. I_C

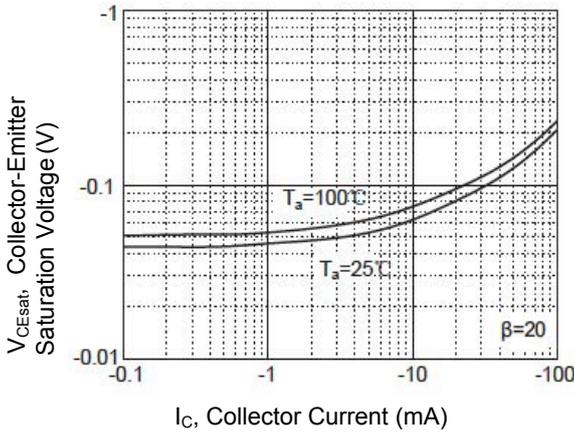


Figure 3. Collector - Emitter Saturation Voltage vs. Collector Current

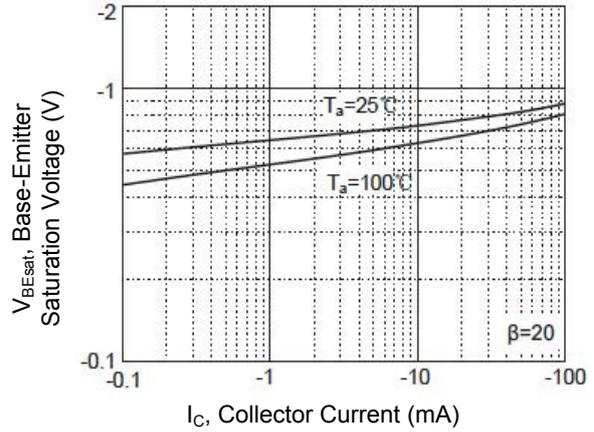


Figure 4. Base - Emitter Saturation Voltage vs. Collector Current

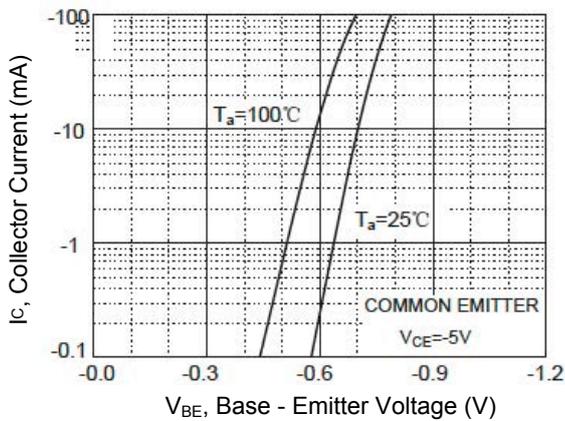


Figure 5. Collector Current vs. Base - Emitter Voltage

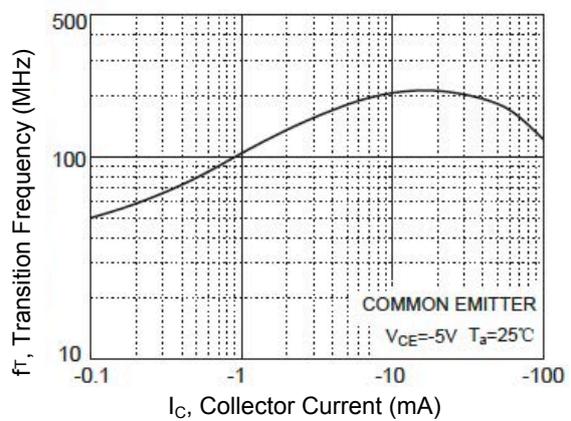


Figure 6. Transition Frequency vs. Collector Current

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

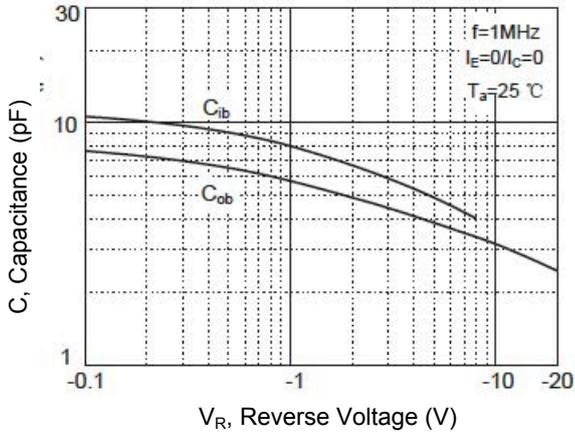


Figure 6. Capacitance Characteristics

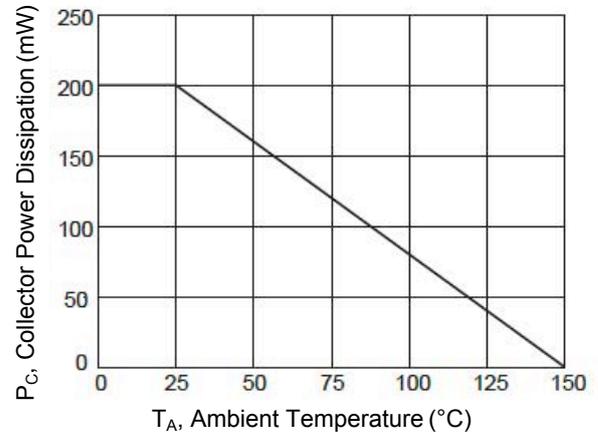
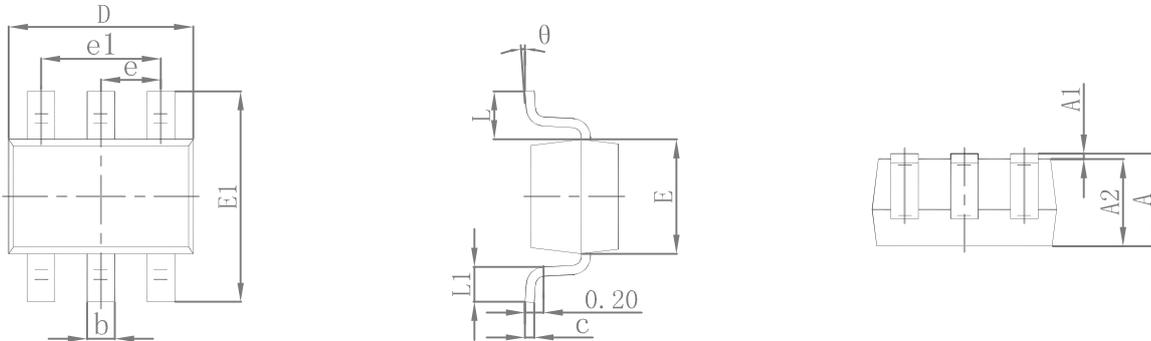


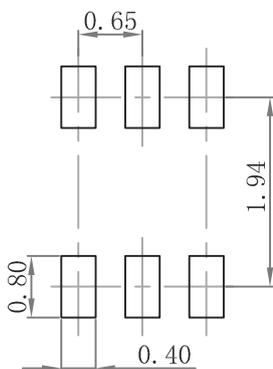
Figure 8. Power Dissipation vs Ambient Temperature

Package Outline Dimensions (SOT-363)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

Suggested Pad Layout



- Note:
1. Controlling dimension: in millimeters
 2. General tolerance: $\pm 0.05\text{mm}$
 3. The pad layout is for reference purposes only