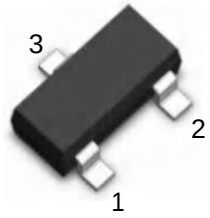
LT858A

Transistor(PNP)

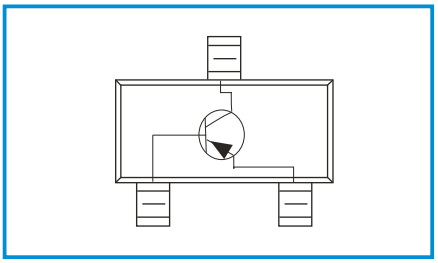


1. BASE
2. EMITTER
3. COLLECTOR

Features

- Complementary to LT846/LT847/LT848
- Power Dissipation of 200mW
- Ideally suited for automatic insertion
- For switching and AF amplifier applications
- Marking:3J

Functional Diagram



Mechanical Data

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

Maximum Ratings (Ta=25℃ unless otherwise noted)

Parameters	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-30	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter -Base Voltage	V_{EBO}	-6	V
Collector Current-Continuous	I_C	-100	mA
Collector Power Dissipation Note1	P_C	225	mW
Junction Temperature	T_j	150	℃
Storage Temperature	Tstg	-55-+150	℃
Thermal resistance From junction to ambient	$R_{\theta JA}$	625	℃/W

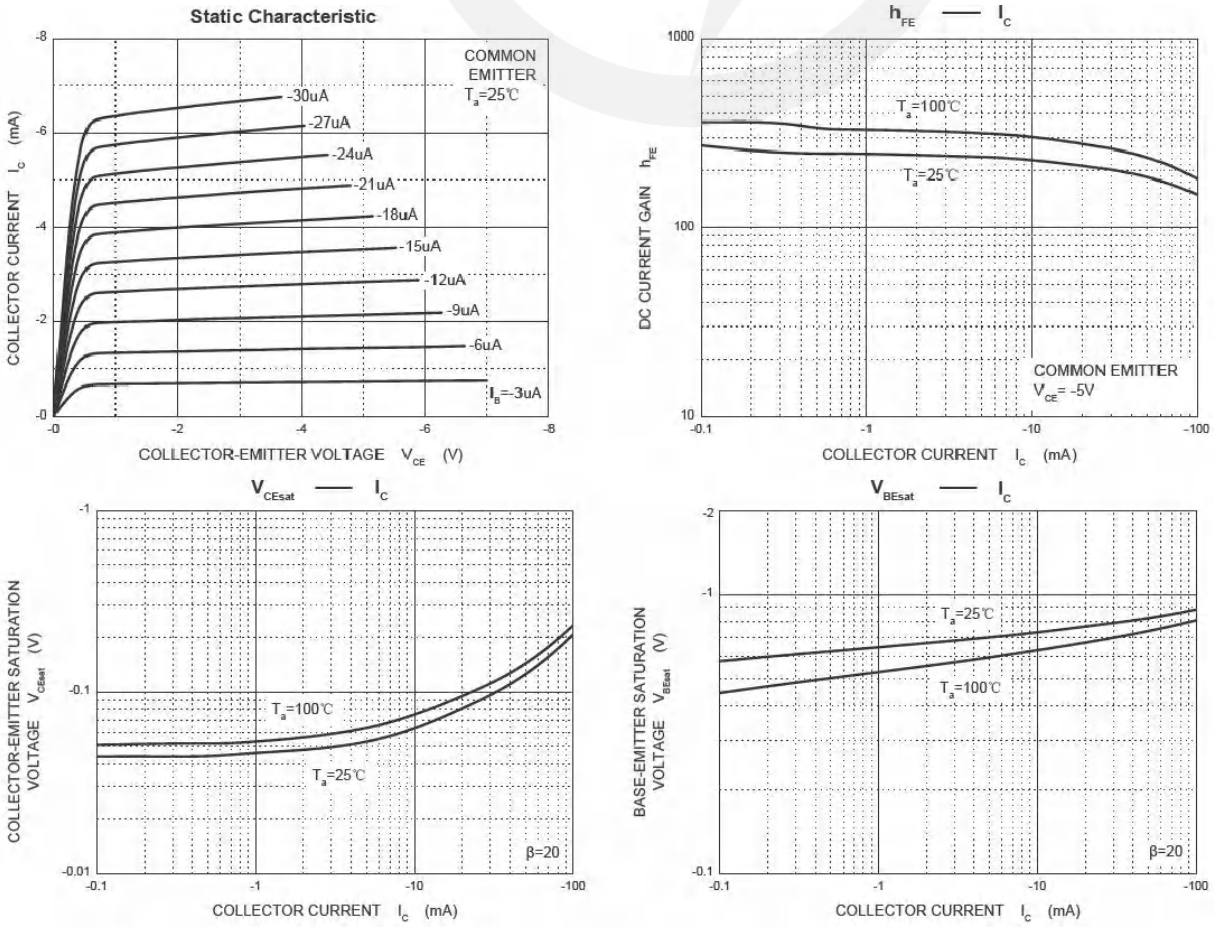
Note:

1.FR-5=1.0x0.75x0.062in

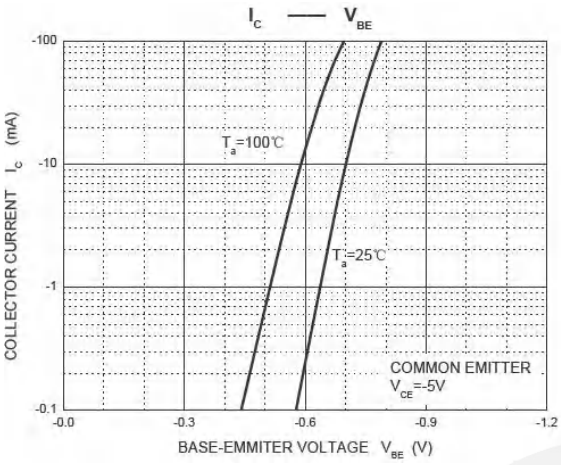
Electrical characteristics (Ta=25℃ unless otherwise specified)

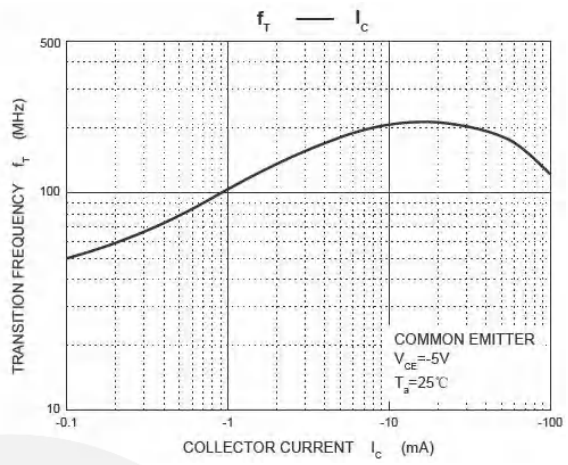
Parameter	Symbols	Test Condition	Limits		Unit
			Min	Max	
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-10uA, I_E=0	-30		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-10mA, I_B=0	-30		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=10uA, I_C=0	-6		V
Collector cut-off current	I_{CBO}	V_{CB}=-25V, I_E=0		-100	nA
Collector cut-off current	I_{CEO}	V_{CE}=-25V, I_B=0		-100	nA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V, I_C=0		-100	nA
DC current gain	h_{FE}	V_{CE}=-5V, I_C=-2mA	125	250	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-100mA, I_B=-5mA		-0.50	V
Base -emitter saturation voltage	$V_{BE(sat)}$	I_C=-100mA, I_B=-5mA		-1.10	V
Transition frequency	f_T	V_{CE}=-5V, I_C=-10mA,f=100MHz	100		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V, f=1MHz		4.5	pF

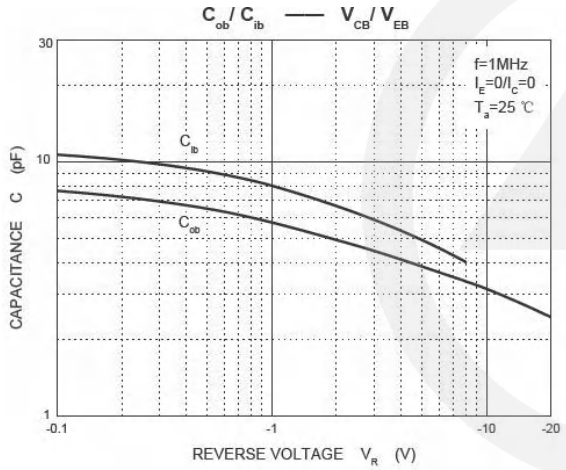
Typical Characteristics

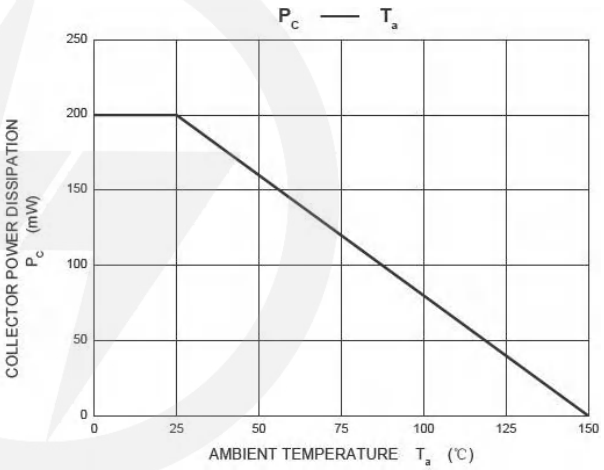


Typical Characteristics



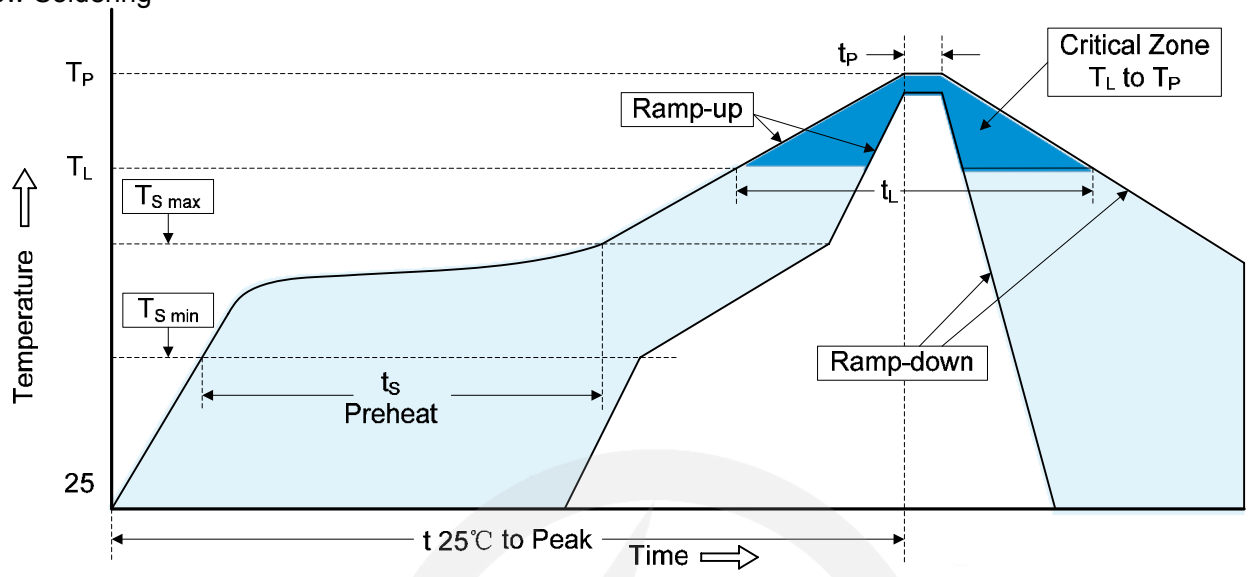






Recommended Soldering Conditions

Reflow Soldering

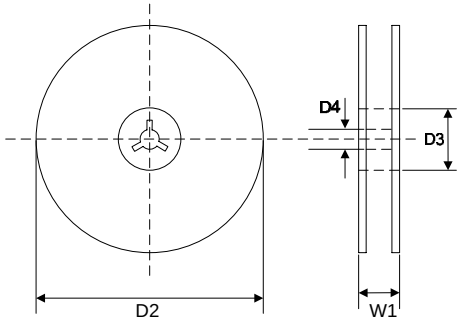


Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3℃/second max.
Preheat -Temperature Min ($T_{S\ min}$) -Temperature Max ($T_{S\ max}$) -Time (min to max) (t_S)	 150℃ 200℃ 60-180 seconds
$T_{S\ max}$ to T_L -Ramp-up Rate	 3℃/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	 217℃ 60-150 seconds
Peak Temperature (T_P)	260℃
Time within 5℃ of actual Peak Temperature (t_P)	20-40 seconds
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8 minutes max.

Packaging

7” Reel



D2	Φ178.0±2.0
D3	Φ50.0Min.
D4	Φ13.0±0.5
W1	16.0±2.0
Quantity: 3000PCS	