

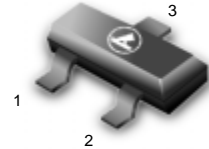
General Purpose Transistors

PNP Silicon

FEATURE

We declare that the material of product compliance with RoHS requirements.
 S- Prefix for Automotive and Other Applications Requiring Unique Site
 and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

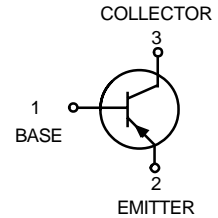
L8550PLT1G
 Series
 S-L8550PLT1G
 Series



SOT-23

DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
L8550PLT1G	s-L8550PLT1G 85P	3000/Tape&Reel
L8550PLT3G	s-L8550PLT3G 85P	10000/Tape&Reel
L8550QLT1G	s-L8550QLT1G 1YD	3000/Tape&Reel
L8550QLT3G	s-L8550QLT3G 1YD	10000/Tape&Reel
L8550RLT1G	s-L8550RLT1G 1YF	3000/Tape&Reel
L8550RLT3G	s-L8550RLT3G 1YF	10000/Tape&Reel
L8550SLT1G	s-L8550SLT1G 1YH	3000/Tape&Reel
L8550SLT3G	s-L8550SLT3G 1YH	10000/Tape&Reel



MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	-25	V
Collector-Base voltage	V_{CBO}	-40	V
Emitter-base Voltage	V_{EBO}	-5	V
Collector current-continuous	I_C	-800	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Total Device Dissipation FR-5 Board (1) $T_A = 25\text{ }^\circ\text{C}$	P_D	225	mW
Derate above 25 °C		1.8	mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	556	°C/W
Total Device Dissipation Alumina Substrate, (2) $T_A = 25\text{ }^\circ\text{C}$	P_D	300	mW
Derate above 25 °C		2.4	mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	417	°C/W
Junction and Storage Temperature	T_J, T_{stg}	-55 to +150	°C

1. FR-5 = 1.0 x 0.75 x 0.062 in.

2. Alumina = 0.4 x 0.3 x 0.024 in. 99.5% alumina.

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

Characteristic	Symbol	Min	Typ	Max	Unit
OFF CHARACTERISTICS					
Collector-Emitter Breakdown Voltage ($I_C = -1.0\text{mA}$)	$V_{(BR)CEO}$	-25	-	-	V
Emitter-Base Breakdown Voltage ($I_E = -100\mu\text{A}$)	$V_{(BR)EBO}$	-5	-	-	V
Collector-Base Breakdown voltage ($I_C = -100\mu\text{A}$)	$V_{(BR)CBO}$	-40	-	-	V
Collector Cutoff Current ($V_{CB} = -35\text{V}$)	I_{CBO}	-	-	-150	nA
Emitter Cutoff Current ($V_{EB} = -4\text{V}$)	I_{EBO}	-	-	-150	nA

- FR-5 = 1.0 x 0.75 x 0.062 in.
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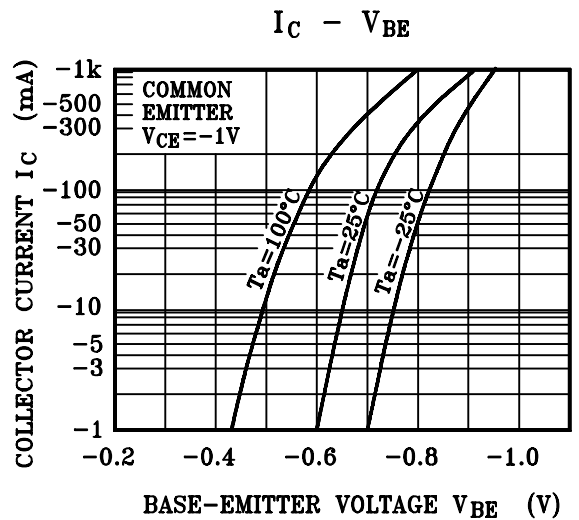
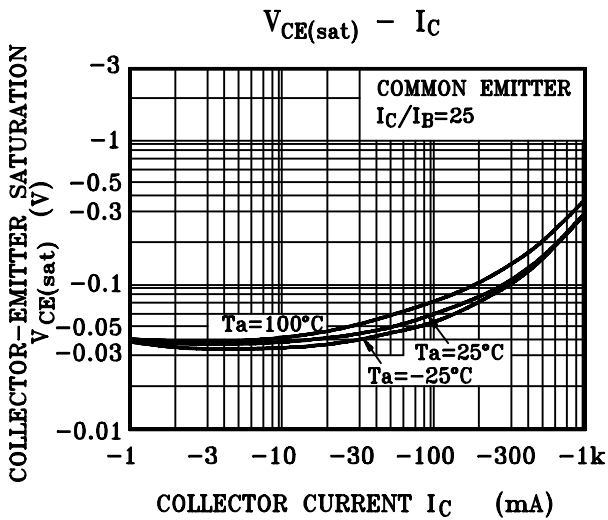
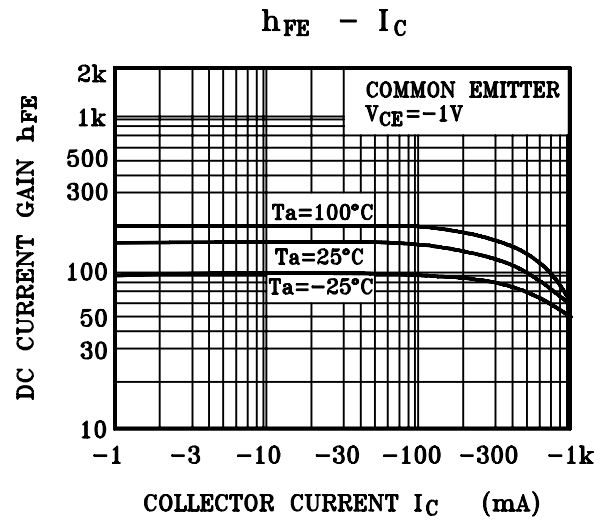
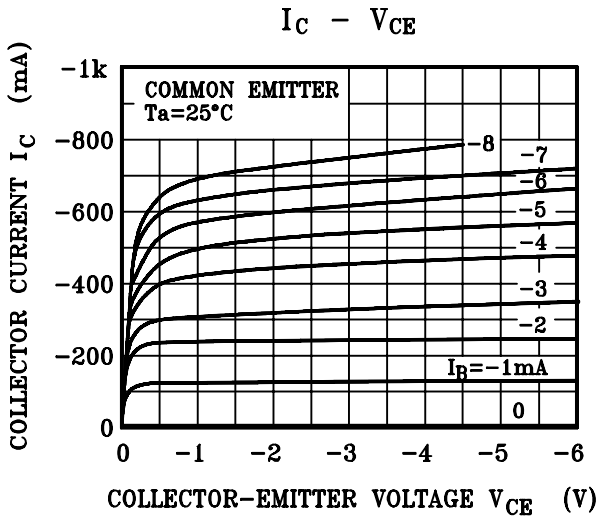
ON CHARACTERISTICS

Characteristic	Symbol	Min	Typ	Max	Unit
DC Current Gain ($I_C = -100\text{mA}$, $V_{CE} = -1\text{V}$)	h_{FE}	100	-	600	
Collector-Emitter Saturation Voltage ($I_C = -800\text{mA}$, $I_B = -80\text{mA}$)	$V_{CE(S)}$	-	-	-0.5	V

NOTE:

*	P	Q	R	S
h_{FE}	100~200	150~300	200~400	300~600

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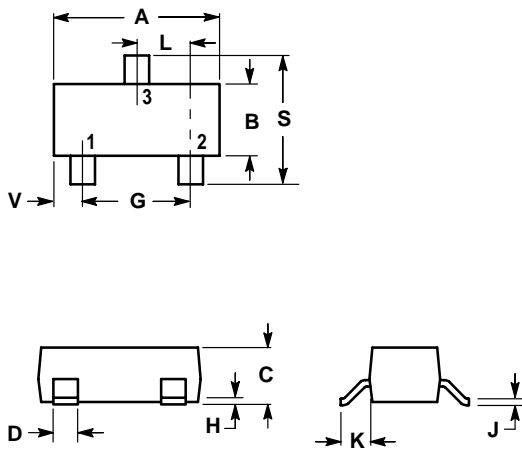


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NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M,1982
2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
G	0.0701	0.0807	1.78	2.04
H	0.0005	0.0040	0.013	0.100
J	0.0034	0.0070	0.085	0.177
K	0.0140	0.0285	0.35	0.69
L	0.0350	0.0401	0.89	1.02
S	0.0830	0.1039	2.10	2.64
V	0.0177	0.0236	0.45	0.60

PIN 1. BASE
2. EMITTER
3. COLLECTOR

