

General Purpose Transistors

PNP Silicon

FEATURE

- Complementary to L9014.
- 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.

DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
L9015QLT1G S-L9015QLT1G	15Q	3000/Tape&Reel
L9015QLT3G S-L9015QLT3G	15Q	10000/Tape&Reel
L9015RLT1G S-L9015RLT1G	15R	3000/Tape&Reel
L9015RLT3G S-L9015RLT3G	15R	10000/Tape&Reel
L9015SLT1G S-L9015SLT1G	15S	3000/Tape&Reel
L9015SLT3G S-L9015SLT3G	15S	10000/Tape&Reel

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	-45	V
Collector-Base Voltage	V_{CBO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector current-continuoun	I_C	-100	mA

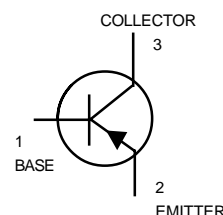
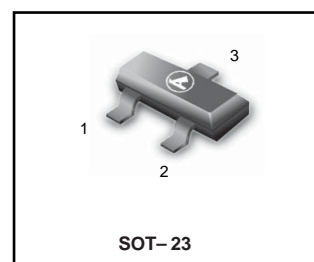
THERMAL CHARATEERISTICS

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

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.

L9015QLT1G
Series
S-L9015QLT1G
Series



ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

OFF CHARACTERISTICS

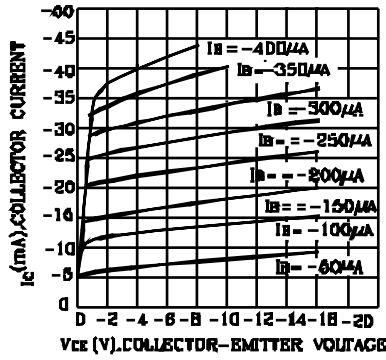
Characteristic	Symbol	Min	Typ	Max	Unit
Collector-Emitter Breakdown Voltage ($I_C=-1.0\text{mA}$)	$V(\text{BR})_{\text{CEO}}$	-45	-	-	V
Emitter-Base Breakdown Voltage ($I_E=-100\mu\text{A}$)	$V(\text{BR})_{\text{EBO}}$	-5	-	-	V
Collector-Base Breakdown Voltage ($I_C=-100\mu\text{A}$)	$V(\text{BR})_{\text{CBO}}$	-50	-	-	V
Collector Cutoff Current ($V_{\text{CB}}=-40\text{V}$)	I_{CBO}	-	-	-100	nA
Emitter Cutoff Current ($V_{\text{EB}}=-3\text{V}$)	I_{EBO}	-	-	-100	nA

ON CHARACTERISTICS

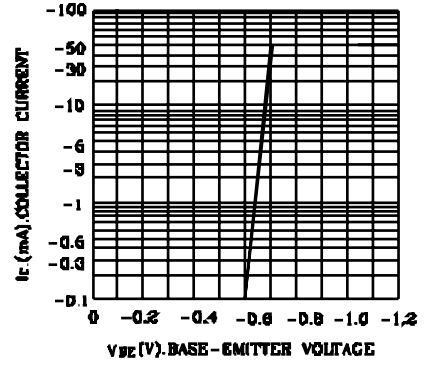
DC Current Gain ($I_C=-1\text{mA}$, $V_{\text{CE}}=-5\text{V}$)	H_{FE}	150	-	600	
Collector-Emitter Saturation Voltage ($I_C=-100\text{mA}$, $I_B=-5\text{mA}$)	V_{CE}	-	-	-0.3	V

NOTE:	*	Q	R	S
	H_{FE}	150~300	200~400	300~600

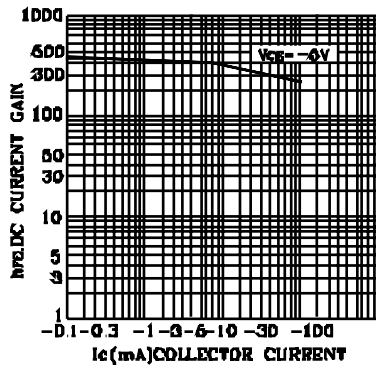
STATIC CHARACTERISTIC



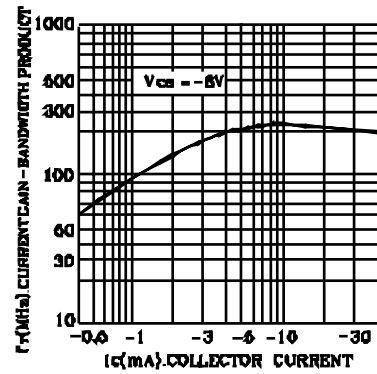
BASE-EMITTER VOLTAGE



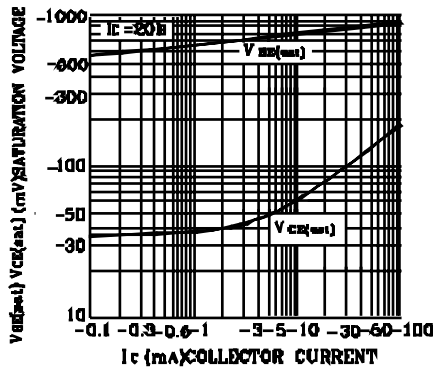
DC CURRENT GAIN



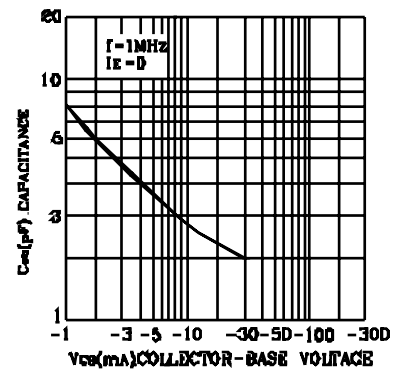
CURRENT GAIN-BANDWIDTH PRODUCT



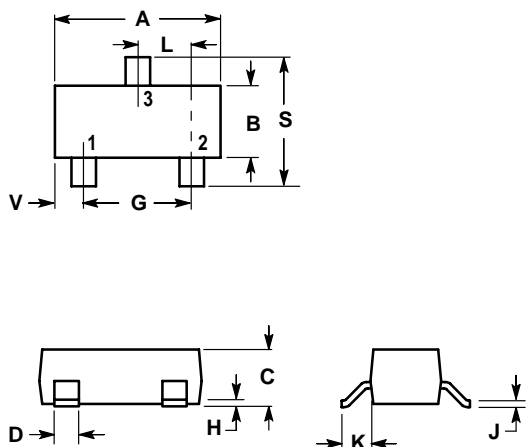
BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



COLLECTOR OUTPUT CAPACITANCE



SOT-23

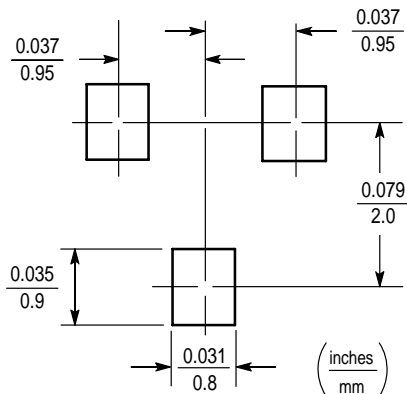


NOTES:

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



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