

Medium Power Transistor

(-32V, -0.5A)

L2SA1036K*LT1

www.DataSheet4U.com

●Features

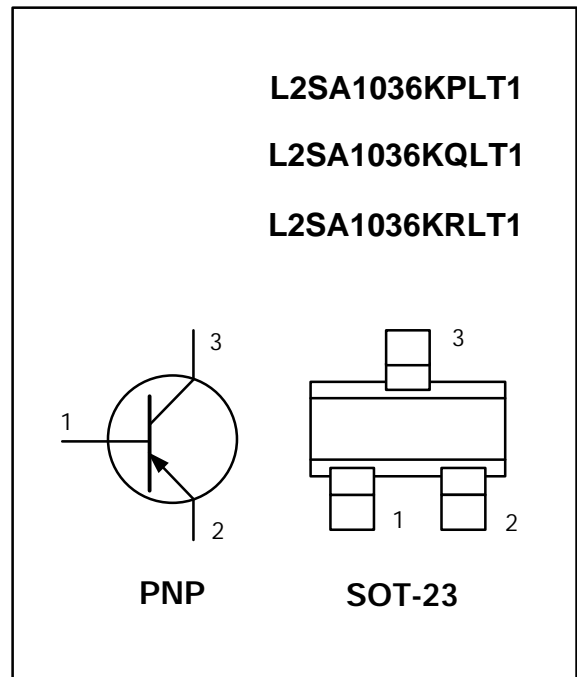
- 1) Large I_c .
 $I_{cMax.} = -500mA$
- 2) Low $V_{CE(sat)}$. Ideal for low-voltage operation.
- 3) Pb-Free Package May be Available.
The G.Suffix Denotes a Pb-Free Lead Finish

●Structure

Epitaxial planar type
PNP silicon transistor

●DEVICE MARKING

- | |
|---------------------|
| 1) L2SA1036KPLT1=HP |
| 2) L2SA1036KQLT1=HQ |
| 3) L2SA1036KRLT1=HR |



●Absolute maximum ratings ($T_a = 25^{\circ}C$)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CBO}	-40	V
Collector-emitter voltage	V_{CEO}	-32	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_c	-0.5	A *
Collector power dissipation	P_c	0.2	W
Junction temperature	T_j	150	$^{\circ}C$
Storage temperature	T_{stg}	-55~+150	$^{\circ}C$

* P_c MAX. must not be exceeded.

●ORDERING INFORMATION

Device	Package	Shipping
L2SA1036K*LT1	SOT-23	3000/Tape & Reel
L2SA1036K*LT1G	SOT-23	3000/Tape & Reel

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●Electrical characteristics (Ta = 25°C)

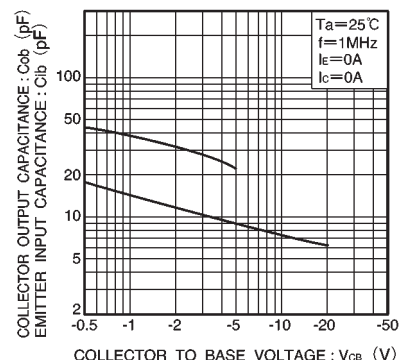
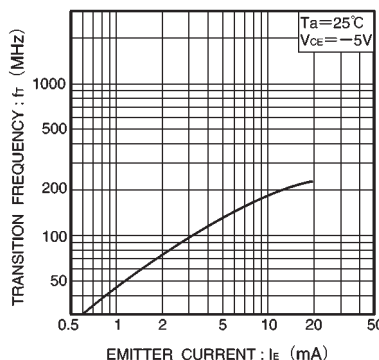
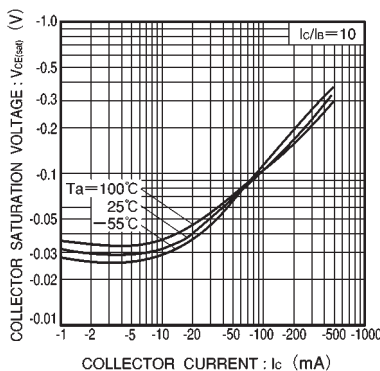
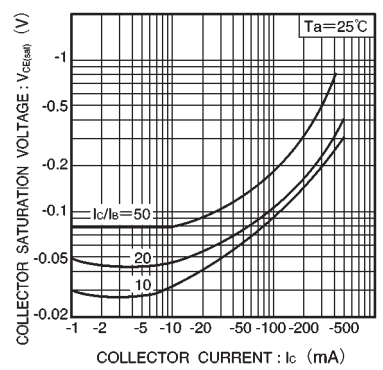
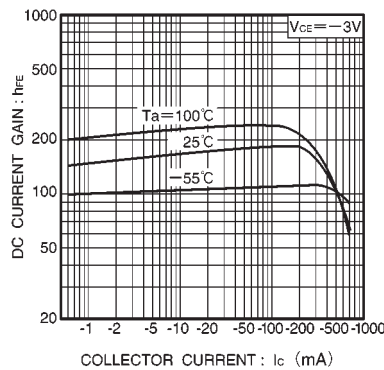
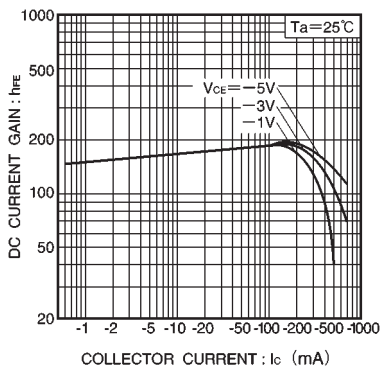
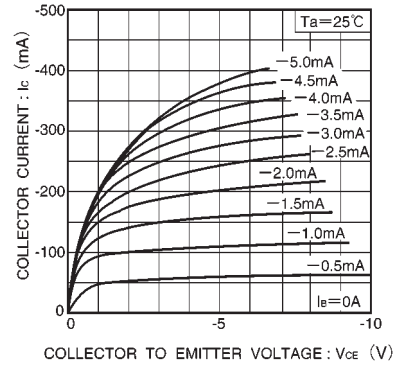
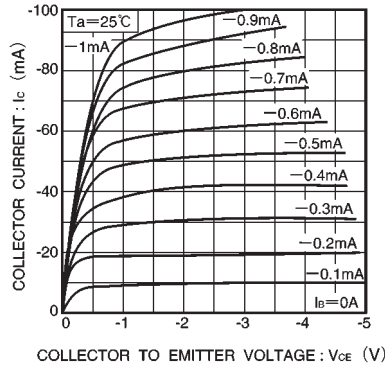
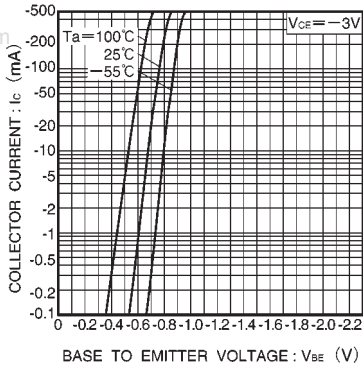
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	— 40	—	—	V	I _C = — 100μA
Collector-emitter breakdown voltage	BV _{CEO}	— 32	—	—	V	I _C = — 1mA
Emitter-base breakdown voltage	BV _{EBO}	— 5	—	—	V	I _E = — 100μA
Collector cutoff current	I _{CB0}	—	—	— 1	μA	V _{CB} = — 20v
Emitter cutoff current	I _{EBO}	—	—	— 1	μA	V _{EB} = — 4V
Collector-emitter saturation voltage	V _{CE(sat)}	—	—	— 0.4	V	I _C /I _B = — 100mA/ — 10mA
DC current transfer ration	h _{FE}	82	—	390	—	V _{CE} = — 3V, I _C = — 10mA
Transition frequency	f _T	—	200	—	MHz	V _{CE} = — 5V, I _E =20mA, f=100MHz
Output capacitance	C _{ob}	—	7	—	pF	V _{CB} = — 10V, I _E =0A, f=1MHz

●h_{FE} values are classified as follows.

Item	P	Q	R
h _{FE}	82~180	120~270	180~390

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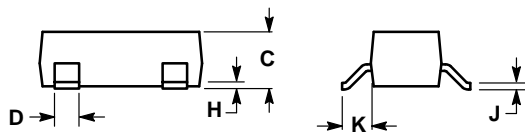
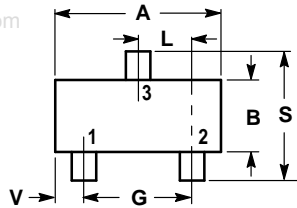
● Electrical characteristic curves



L2SA1036K*LT1
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

