

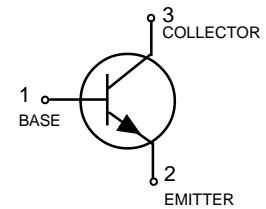
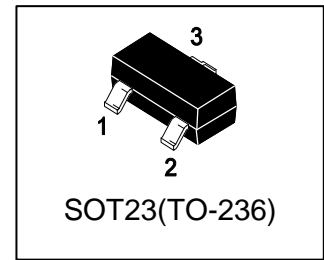
L2SC1623RLT1G

S-L2SC1623RLT1G

General Purpose Transistors

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
L2SC1623RLT1G	L6	3000/Tape&Reel
L2SC1623RLT3G	L6	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector–Emitter Voltage	V _{CEO}	50	V
Collector–Base Voltage	V _{CBO}	60	V
Emitter–Base Voltage	V _{EBO}	7	V
Collector Current — Continuous	I _C	150	mA

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	225 1.8	mW mW/°C
Thermal Resistance, Junction–to–Ambient(Note 1)	R _{θJA}	556	°C/W
Total Device Dissipation, Alumina Substrate(Note 2) @ TA = 25°C Derate above 25°C	PD	300 2.4	mW mW/°C
Thermal Resistance, Junction–to–Ambient(Note 2)	R _{θJA}	417	°C/W
Junction and Storage temperature	T _J ,T _{stg}	-55~+150	°C

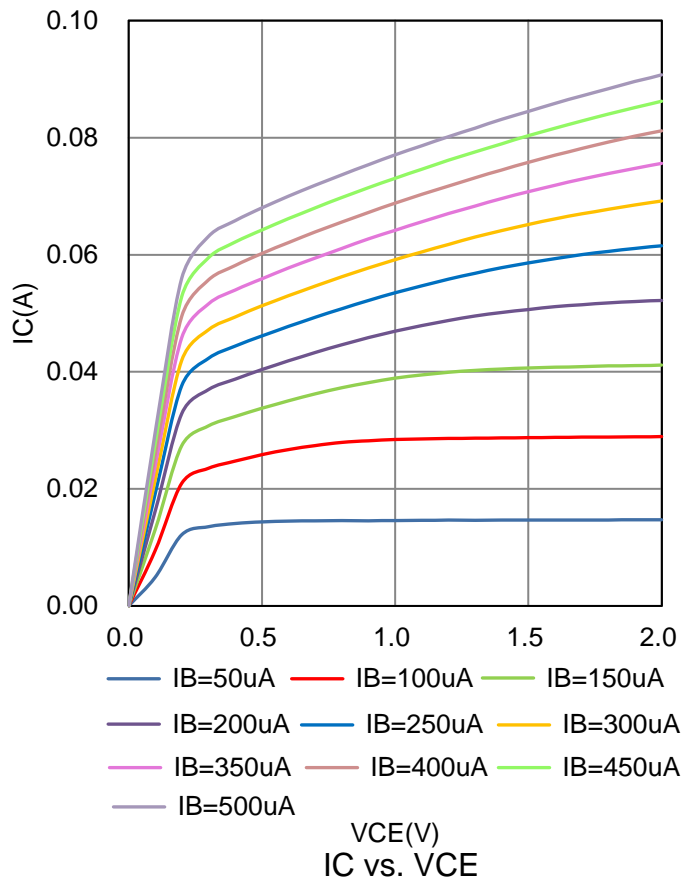
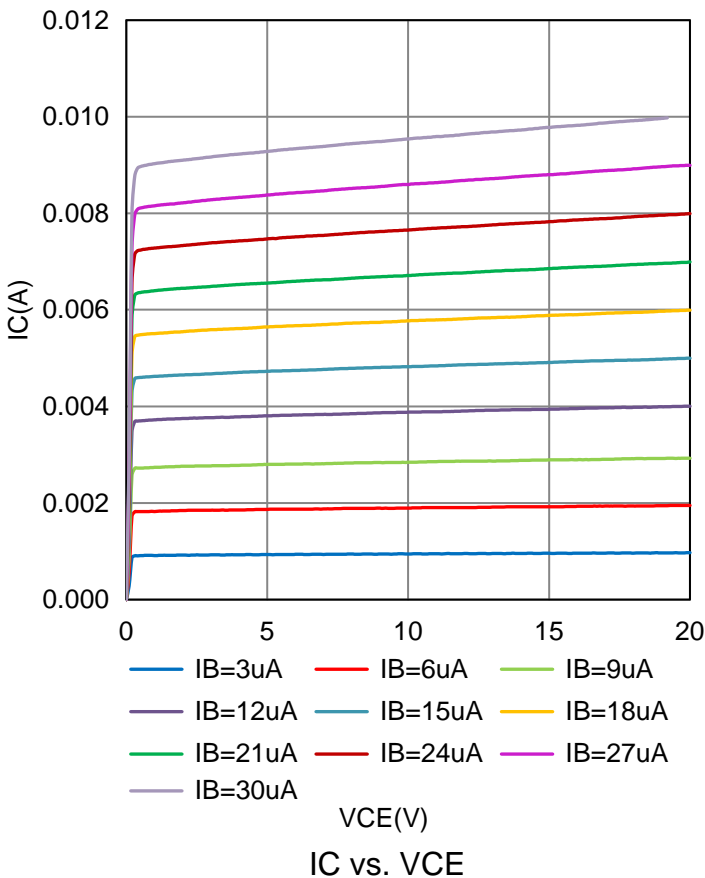
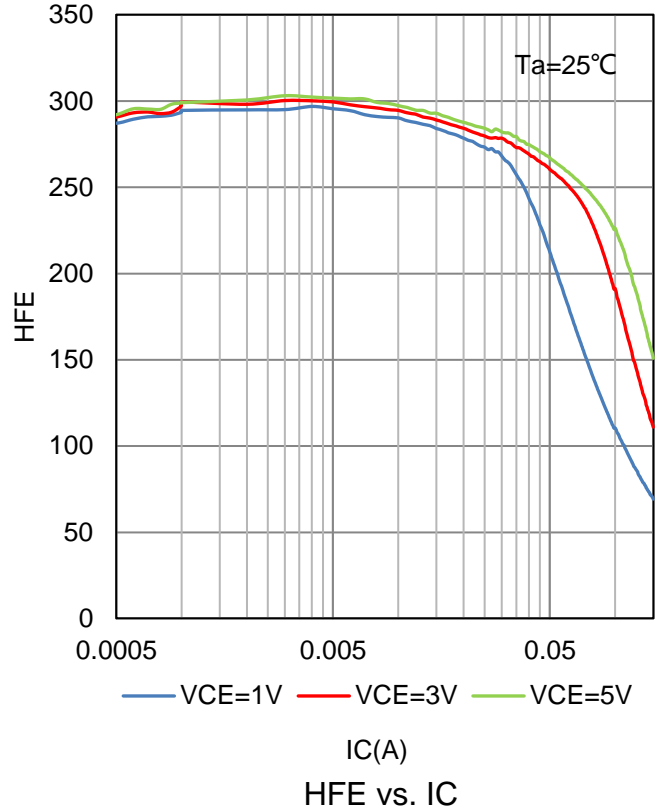
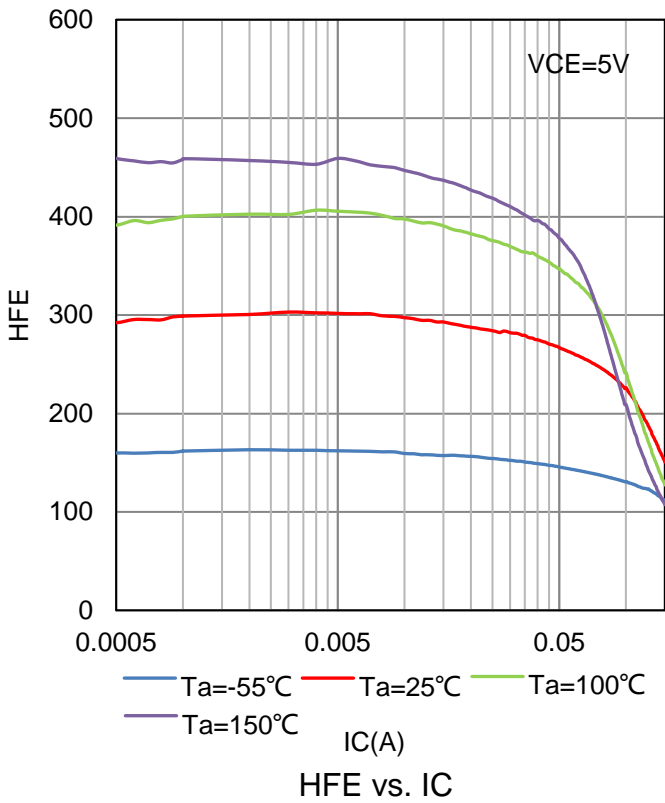
1. FR-5 = 1.0×0.75×0.062 in.

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

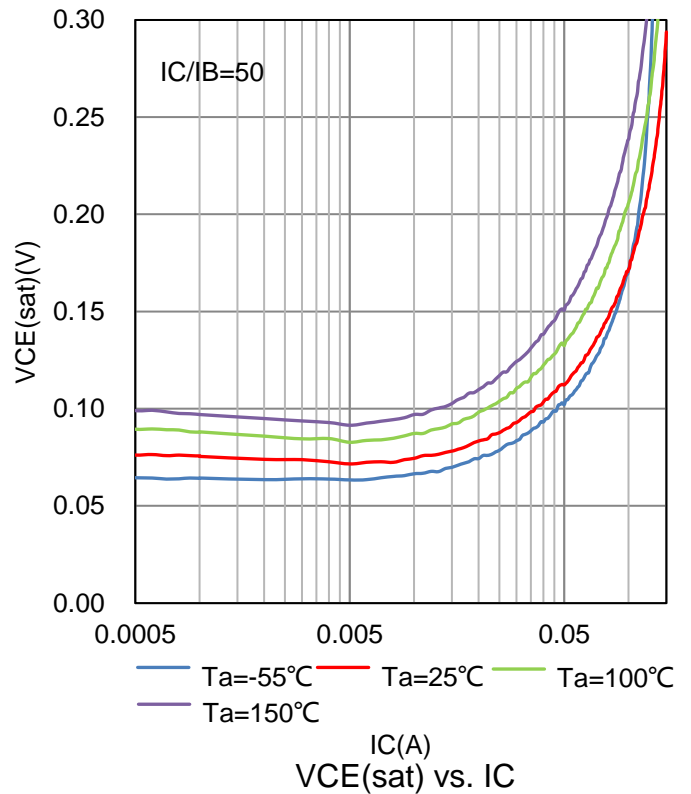
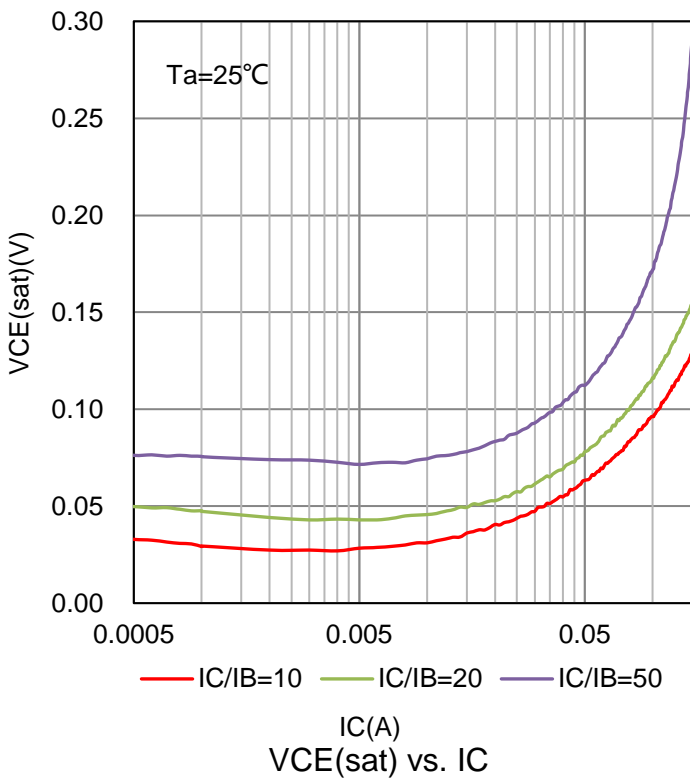
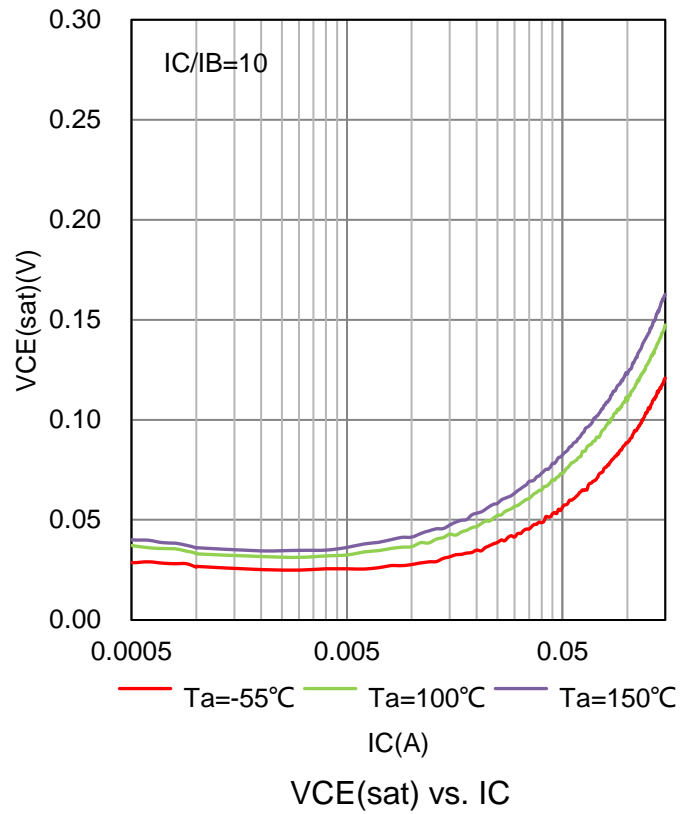
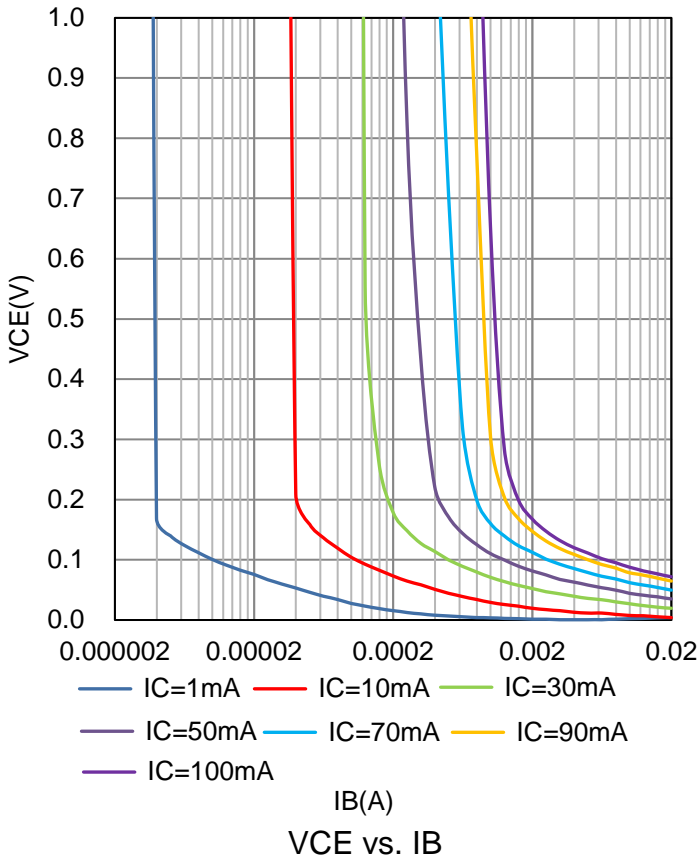
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Collector–Emitter Breakdown Voltage (IC = 1 mA, IB = 0)	VBR(CEO)	50	-	-	V
Collector–Base Breakdown Voltage (IC = 50 μA, IE = 0)	VBR(CBO)	60	-	-	V
Emitter–Base Breakdown Voltage (IE = 50 μA, IC = 0)	VBR(EBO)	7	-	-	V
Collector Cutoff Current (VCB = 60 V, IE = 0)	ICBO	-	-	0.1	μA
Emitter Cutoff Current (VEB = 5.0 V, IC = 0)	IEBO	-	-	0.1	μA
DC Current Gain (IC = 1 mA, VCE = 6.0 V)	HFE	180	-	390	
Collector–Emitter Saturation Voltage (IC = 100 mA, IB = 10 mA)	VCE(sat)	-	0.15	0.3	V
Base-Emitter Saturation Voltage (IC = 100mA, IB = 10mA)	VBE(sat)	-	0.86	1	V
Base -Emitter On Voltage (IC = 1mA, VCE = 6.0V)	VBE	0.55	0.62	0.65	V
Current–Gain — Bandwidth Product (IE = -10mA, VCE=6V)	fT	-	250	-	MHz
Output Capacitance (VCE = 6V, IE = 0, f=1.0MHz)	Cob	-	3	-	pF

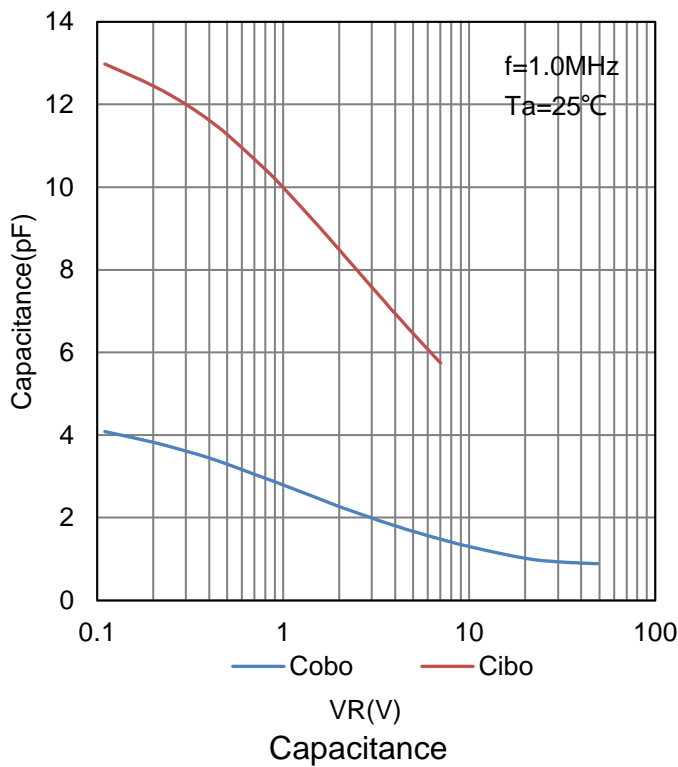
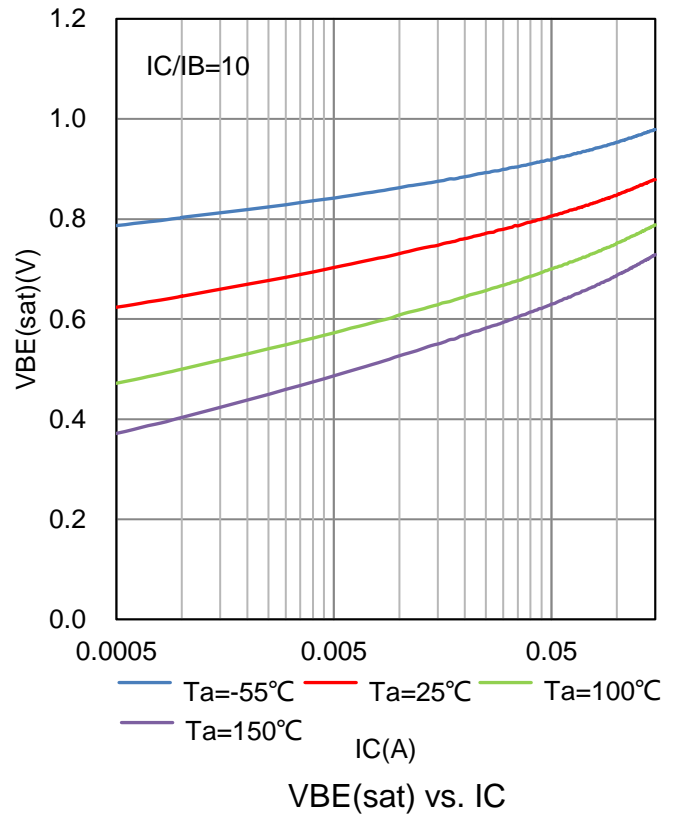
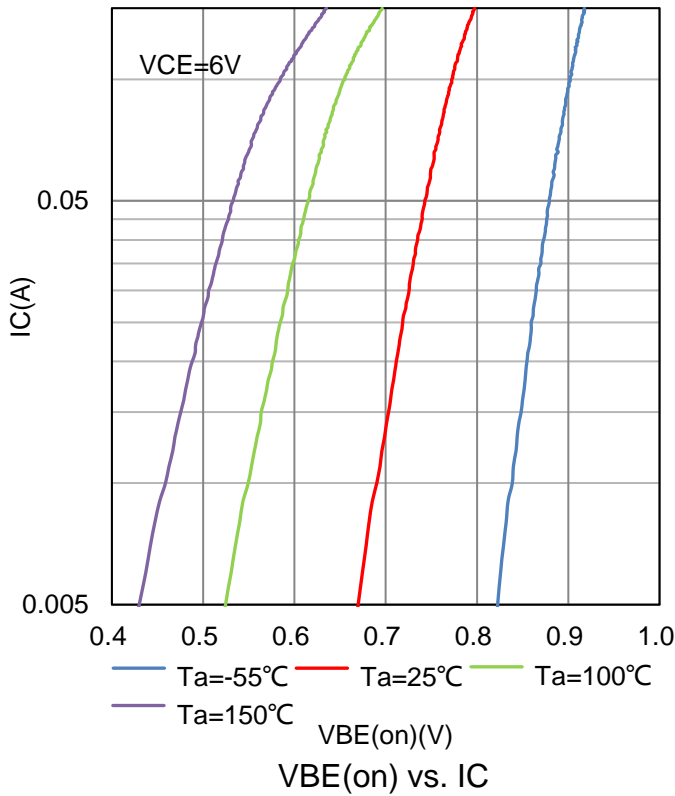
6.ELECTRICAL CHARACTERISTICS CURVES

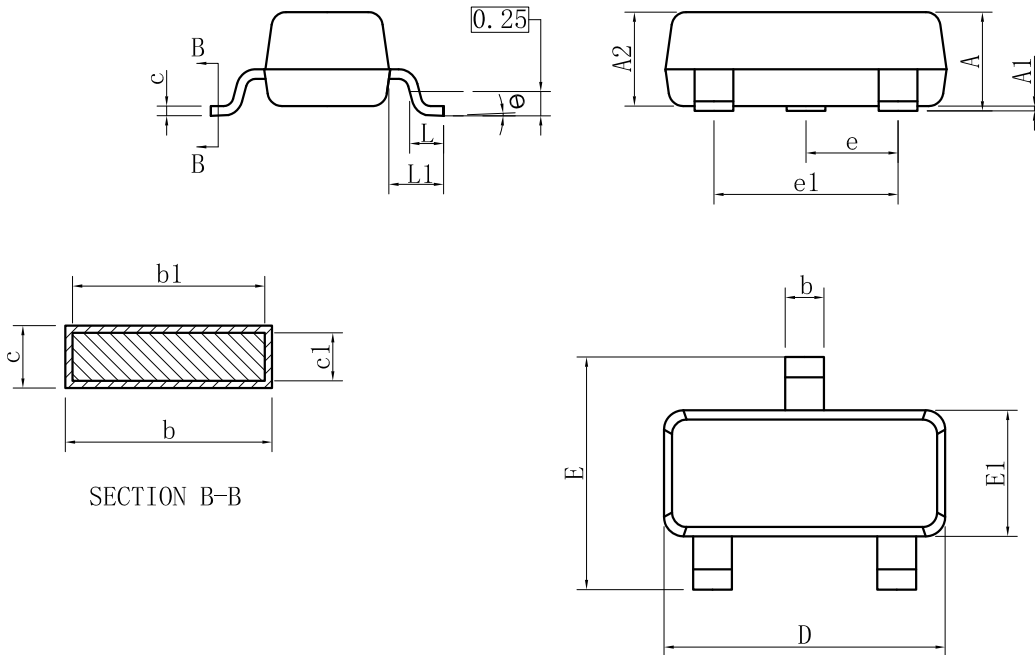


6.ELECTRICAL CHARACTERISTICS CURVES(Con.)



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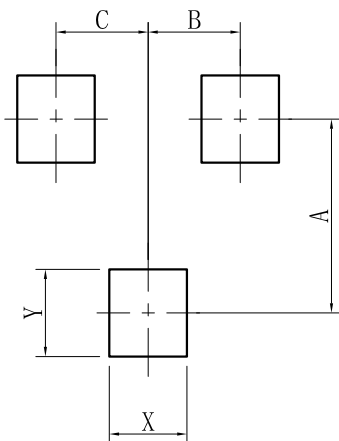


7.OUTLINE AND DIMENSIONS


SOT23			
DIM	MIN	NOR	MAX
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.50
b1	0.30	0.40	0.45
c	0.08	-	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	-	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	-	8°
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish Ra0.4±0.2um
- 2.Bottom package surface finish Ra0.7±0.2um
- 3.Side package surface finish Ra0.4±0.2um

8.SOLDERING FOOTPRINT


SOT-23	
DIM	(mm)
X	0.80
Y	0.90
A	2.00
B	0.95
C	0.95

DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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[>>LRC\(乐山无线电\)](#)