

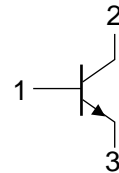
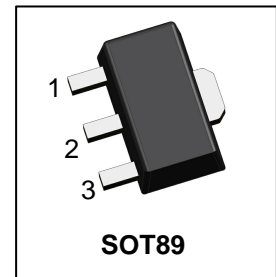
LBSS4250Y3T1G

S-LBSS4250Y3T1G

NPN 2.0A 50V Middle Power Transistor

1. FEATURES

- Suitable for Middle Power Driver
- Complementary NPN Types
- Low VCE(sat)
- 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. APPLICATIONS

- Motor driver , LED driver
- Power supply

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBSS4250Y3T1G	G	1000/Tape&Reel

4. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector–Emitter Voltage	VCEO	50	V
Collector–Base Voltage	VCBO	50	V
Emitter–Base Voltage	VEBO	6	V
Collector Current	IC	2	A
Pulsed Collector Current	ICP	4	A

5. THERMAL CHARACTERISTICS

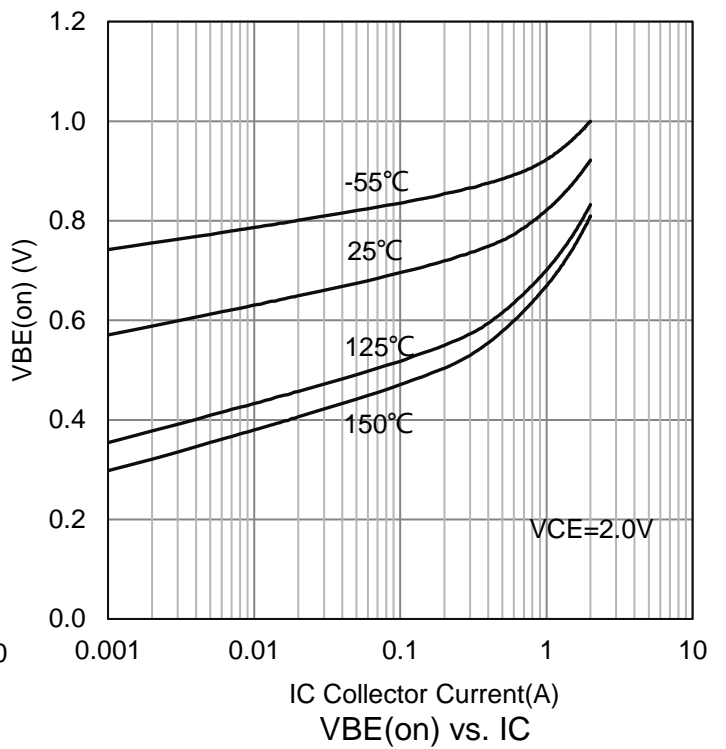
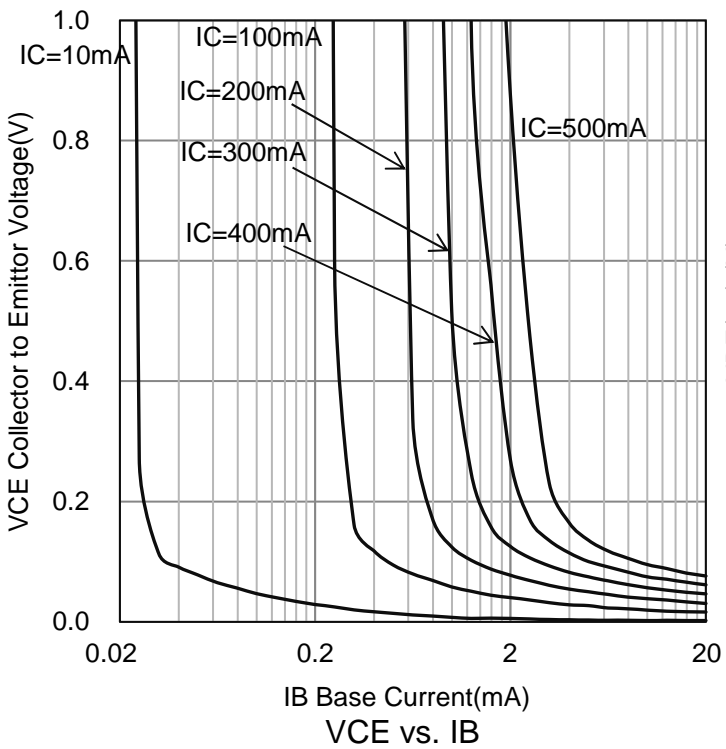
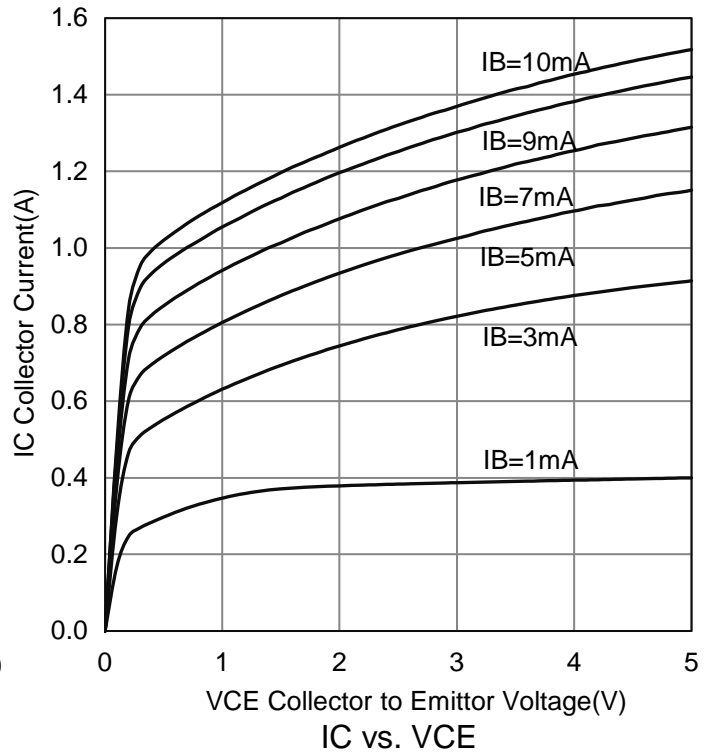
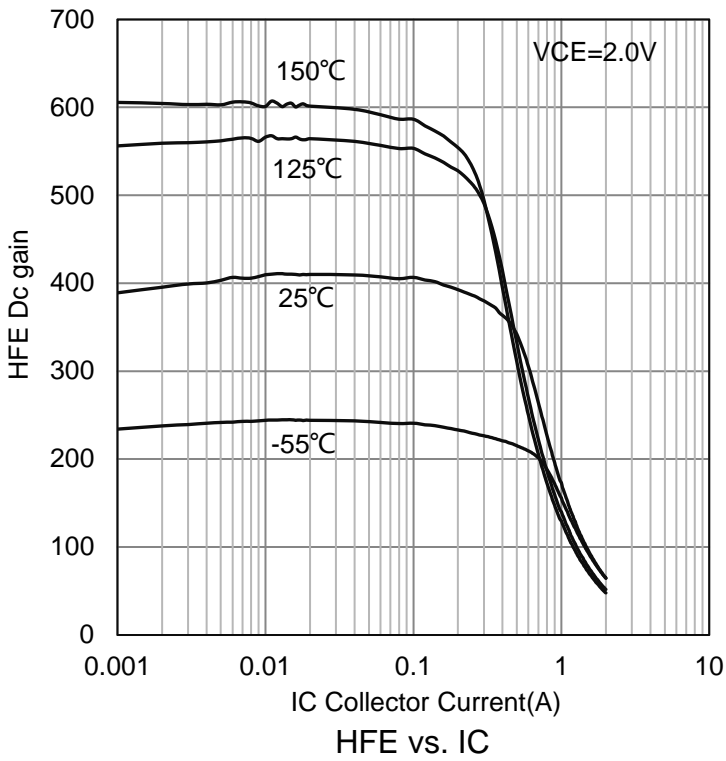
Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-4 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	550 4.4	mW mW/°C
Thermal Resistance, Junction–to–Ambient	θJA	225	°C/W
Junction and Storage temperature	TJ,Tstg	-55~+150	°C

1.PCB Size:30.0mm×25.0mm×1.6mm,FR-4 Board;

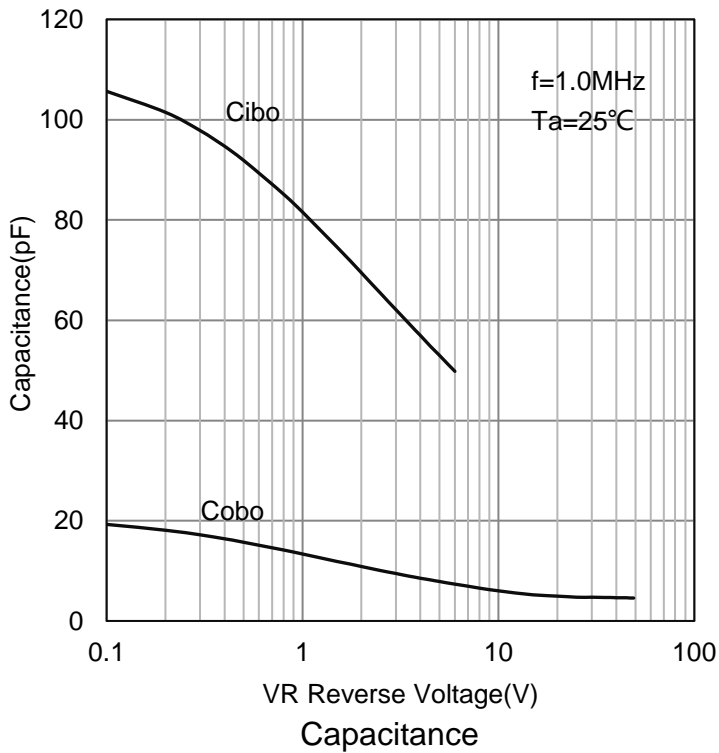
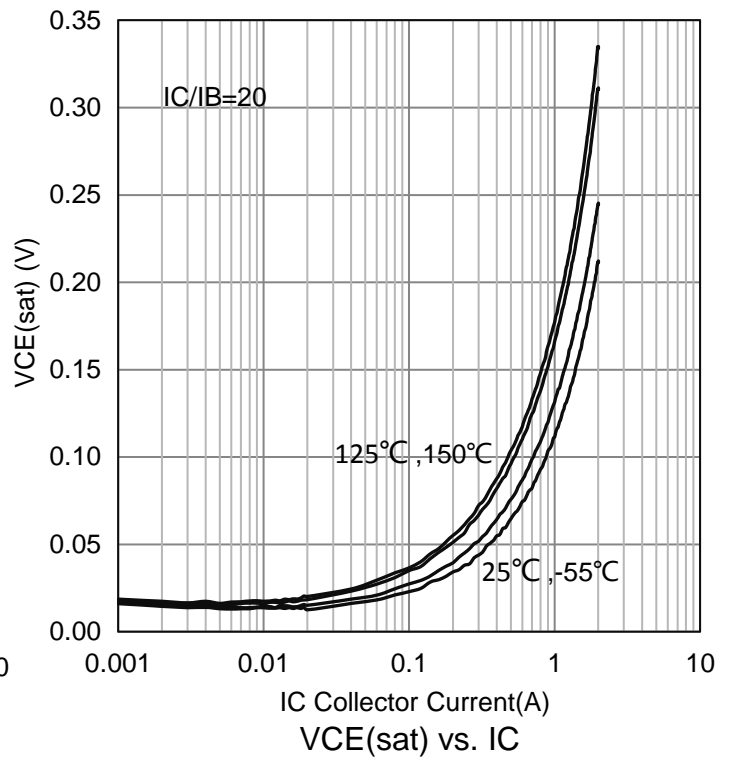
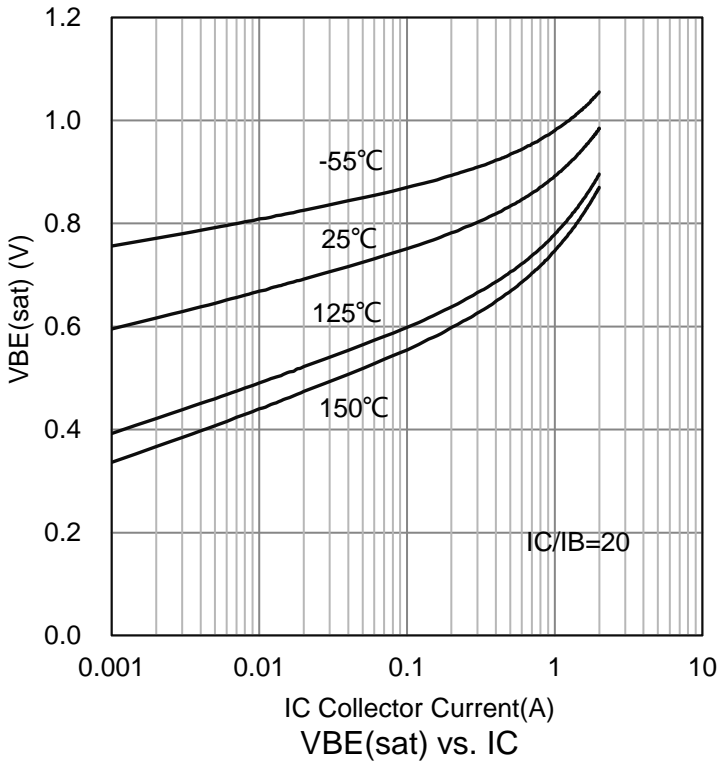
6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Collector-emitter breakdown voltage (IC = 1mA)	BVCEO	50	-	-	V
Collector-base breakdown voltage (IC = 100μA)	BVCBO	50	-	-	V
Emitter-base breakdown voltage (IE = 100μA)	BVEBO	6	-	-	V
Collector Cutoff Current (VCB = 50 V)	ICBO	-	-	1	μA
Emitter Cut-off Current (VEB =4V, IC =0)	IEBO	-	-	1	μA
DC Current Gain (VCE = 2 V, IC = 50mA)	HFE	180	-	450	
Collector–Emitter Saturation Voltage (IC = 700mA, IB = 35mA)	VCE(sat)	-	0.13	0.35	V
Transition Frequency (VCE = 10V, IE = -300mA, f = 100 MHz)	fT	-	360	-	MHz
Output capacitance (VCB = 10V, IE = 0A, f = 1 MHz)	Cob	-	12	-	pF

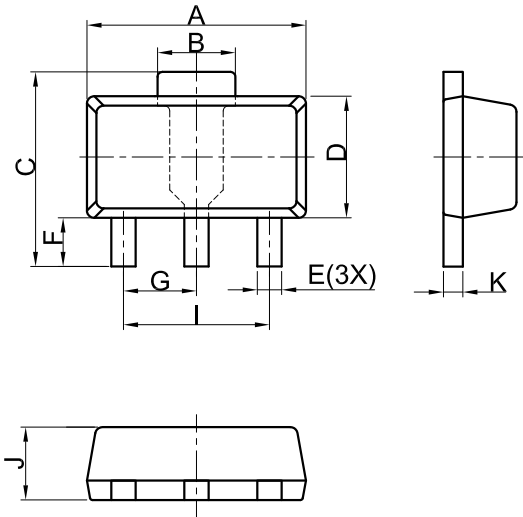
7.ELECTRICAL CHARACTERISTICS CURVES



7.ELECTRICAL CHARACTERISTICS CURVES(Con.)



8.OUTLINE AND DIMENSIONS

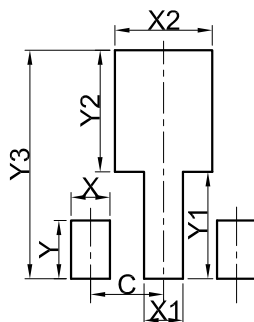


SOT89			
DIM	MIN	NOR	MAX
A	4.30	4.50	4.70
B	1.40	1.60	1.80
C	3.90	4.00	4.25
D	2.30	2.50	2.70
E	0.40	0.50	0.58
F	0.90	1.00	1.20
G	1.50 BSC		
I	3.00 BSC		
J	1.40	1.50	1.60
K	0.34	0.40	0.50
All Dimensions in mm			

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
4. Protrusion or Gate Burrs shall not exceed 0.10mm per side.

9.SOLDERING FOOTPRINT



SOT89	
DIM	(mm)
X	0.80
Y	1.20
X1	0.80
Y1	2.20
X2	2.00
Y2	2.50
C	1.50
Y3	4.70

DISCLAIMER

- Before you use our Products, you are requested to carefully read this document and fully understand its contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any LRC's Products against warning, caution or note contained in this document.
- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)