

# LBSS5250Y3T1G

## S-LBSS5250Y3T1G

Midium Power PNP Transistors

### 1. FEATURES

- Low saturation voltage, typically
- High speed switching
- 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

- Driver

### 3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBSS5250Y3T1G	H	1000/Tape&Reel

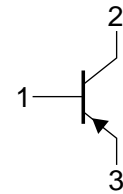
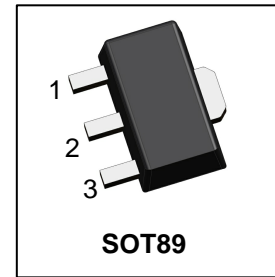
### 4. MAXIMUM RATINGS(Ta = 25°C)

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
Collector Current(Pulse)	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	RθJA	225	°C/W
Junction and Storage temperature	TJ,Tstg	-55~+150	°C

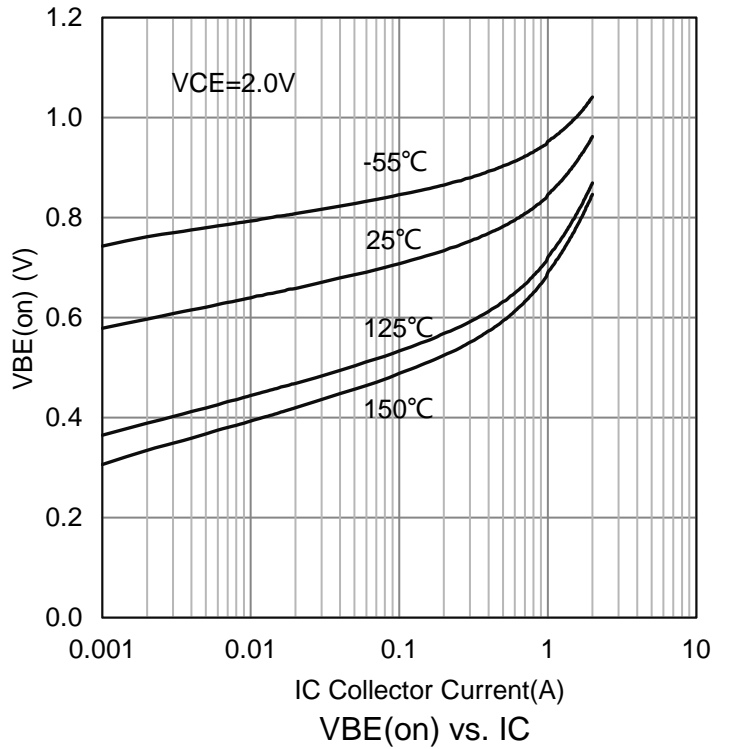
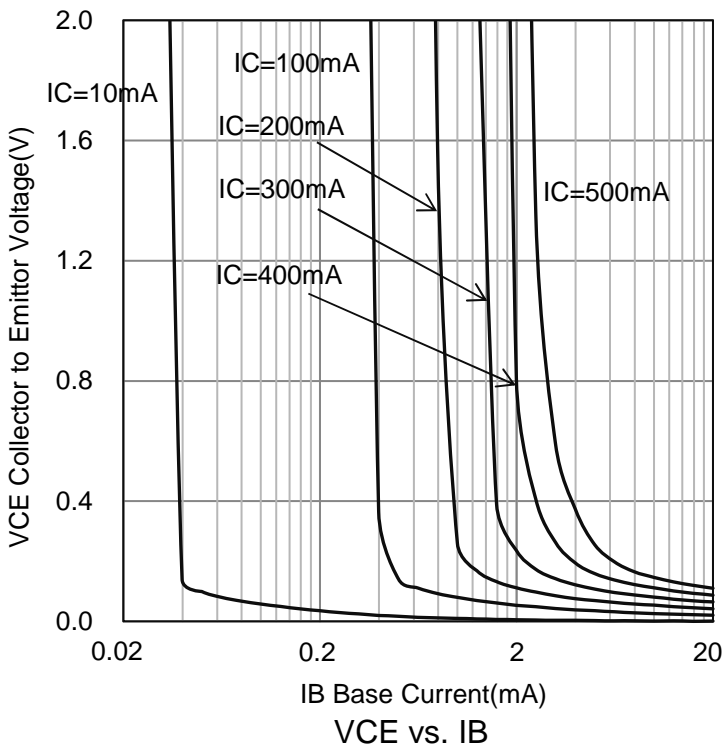
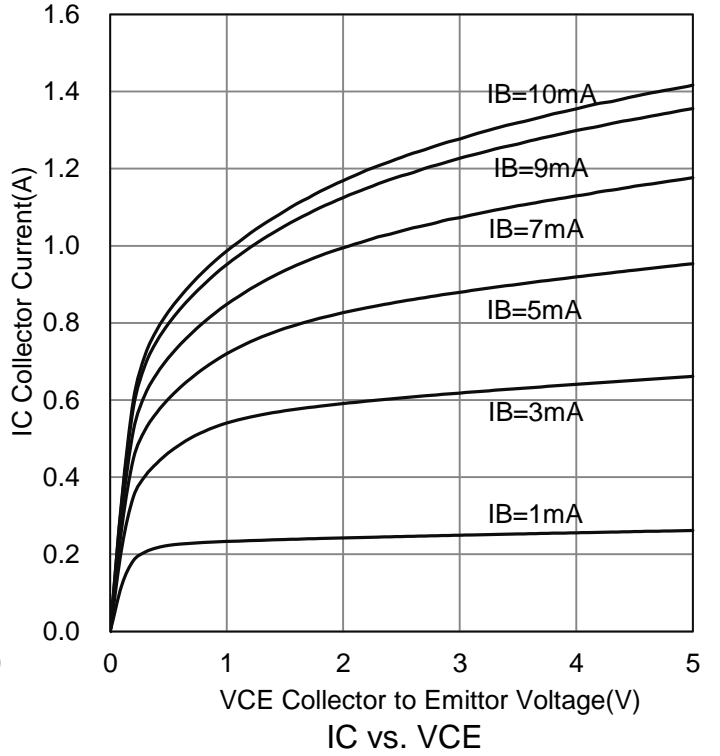
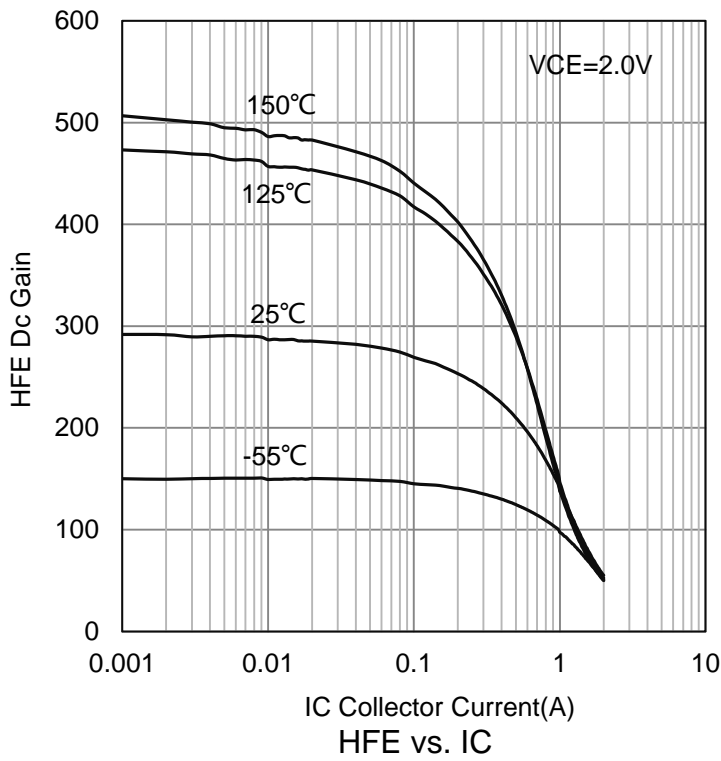
1.PCB Size:30.0mm×25.0mm×1.6mm,FR-4 Board;



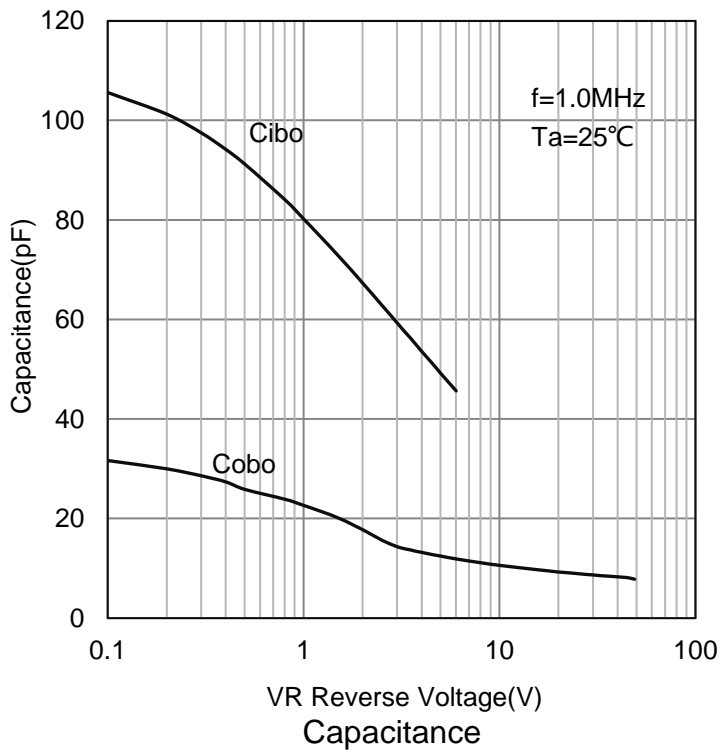
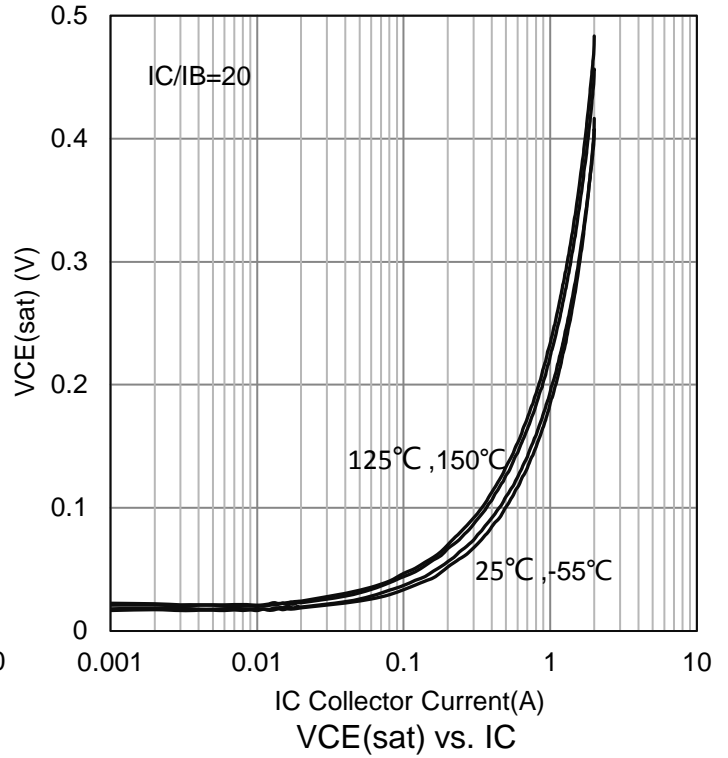
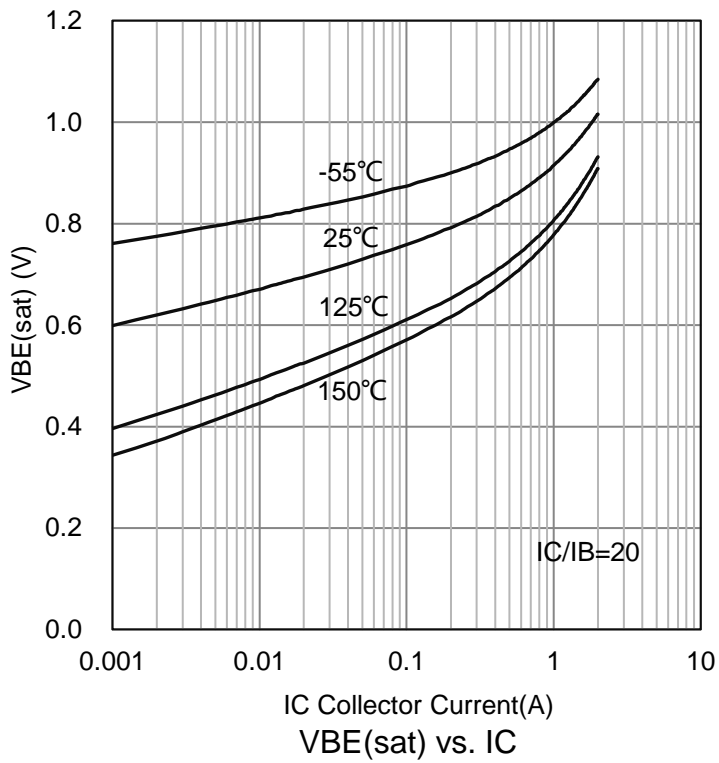
**6. ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

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 = -50V, IE = 0)	ICBO	-	-	-1	μA
Emitter Cut-off Current (VEB = -4V, IC = 0)	IEBO	-	-	-1	μA
DC Current Gain (VCE = -2V, IC = -50mA)	HFE	180	-	450	
Collector-Emitter Saturation Voltage (IC = -700mA, IB = -35mA)	VCE(sat)	-	-200	-400	mV
Transition Frequency(Note 1) (VCE = -10V, IE = 300mA, f=100MHz)	fT	-	320	-	MHz
Collector Output Capacitance (VCB = -10V, IE = 0A, f=1MHz)	Cob	-	22	-	pF

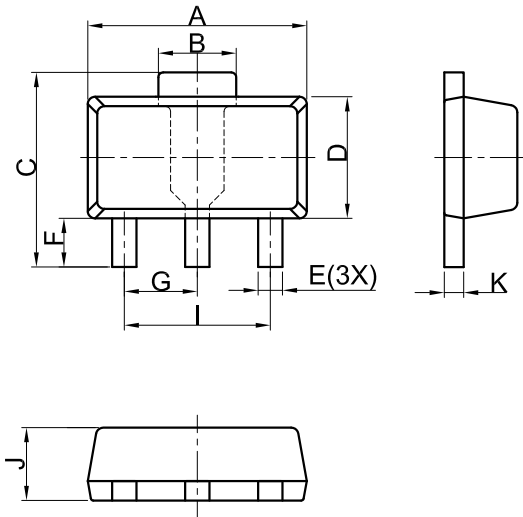
**7. ELECTRICAL CHARACTERISTICS CURVES**



**7.ELECTRICAL CHARACTERISTICS CURVES(Con.)**



### 8.OUTLINE AND DIMENSIONS

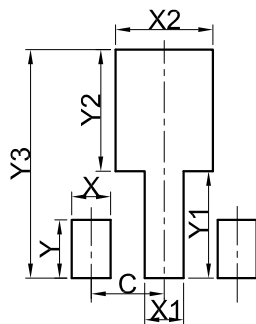


SOT89			
DIM	MIN	NOR	MAX
A	4.30	4.50	4.70
B	1.40	1.60	1.80
C	3.90	4.00	4.25
D	2.30	2.50	2.70
E	0.40	0.50	0.58
F	0.90	1.00	1.20
G	1.50 BSC		
I	3.00 BSC		
J	1.40	1.50	1.60
K	0.34	0.40	0.50
All Dimensions in mm			

#### 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

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