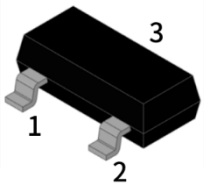
MMBT5401LST1

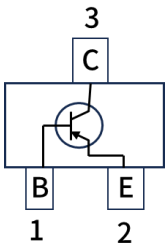
General Purpose Transistors PNP

1. FEATURES

- The material of product compliance with RoHS requirements and Halogen Free.
- High Stability and High Reliability.
- Complementary to MMBT5551(NPN)



SOT23 (TO-236)



2. Mechanical Data

- SOT-23 Small Outline Plastic Package.
- Tin plated leads, solderable per J-STD-002 and JESD22-B102.
- Marking: 2L

3. ORDERING INFORMATION

Device	Min Pack	Inner Box	Outer Carton	Reel
MMBT5401LST1	3000	45000	180000	7 inch

4. MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Limit	Unit
Collector-Emitter Voltage	VCEO	-150	V
Collector-Base Voltage	VCBO	-160	V
Emitter-Base Voltage	VEBO	-5	V
Collector Current--Continuous	IC	-600	mA
Collector Power Dissipation	PC	0.3	W

5. THERMAL CHARACTERISTICS

Parameter	Symbol	Limit	Unit
Operation Junction and Storage Temperature Range	TSTG	-55~150	°C
Thermal Resistance From Junction to Ambient	RΘJA	416	°C/W

6. ELECTRICAL CHARACTERISTICS (Ta= 25°C unless otherwise specified)

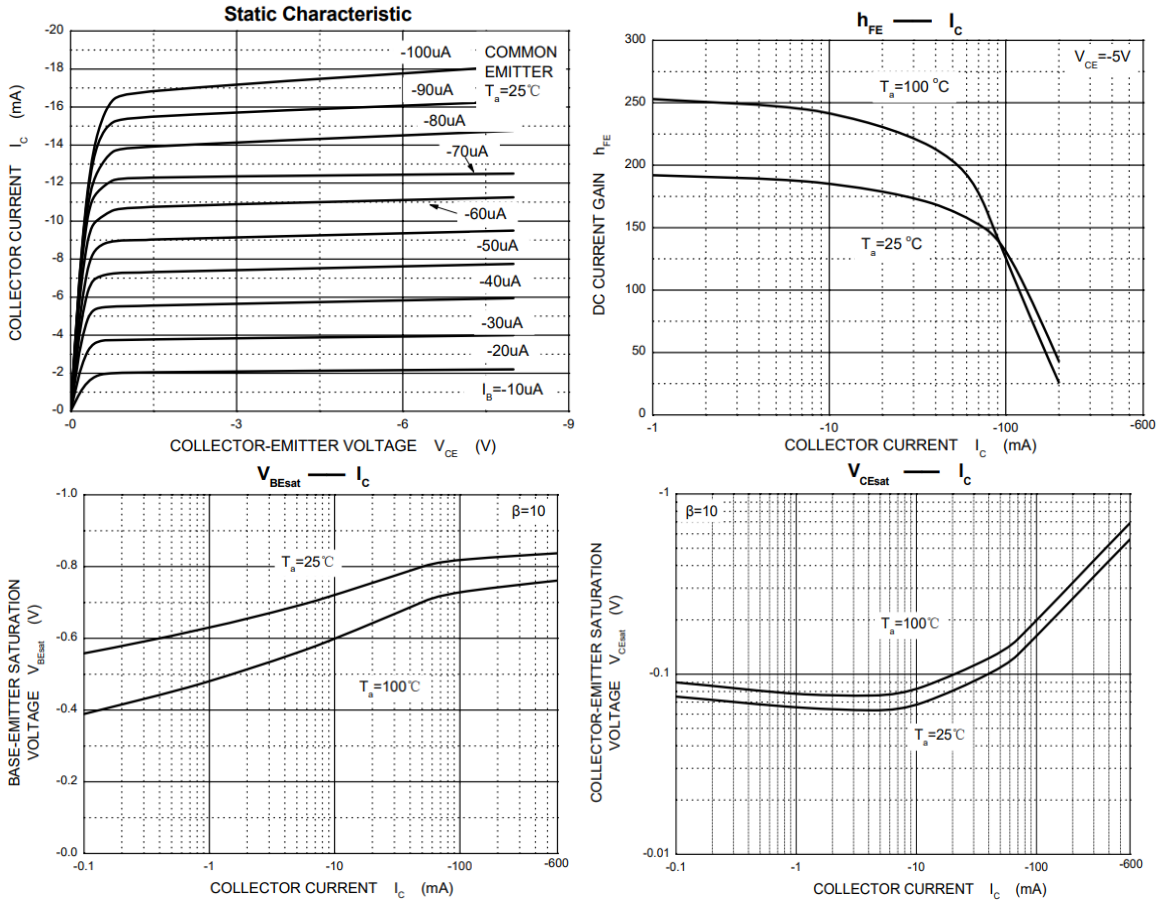
	Symbol	Condition	Min	Max	Unit
Collector–Emitter Breakdown Voltage	V(BR)CEO	IC = -1 mA, IB = 0	-150		V
Collector–Base Breakdown Voltage	V(BR)CBO	IC = -100 μA, IE = 0	-160		V

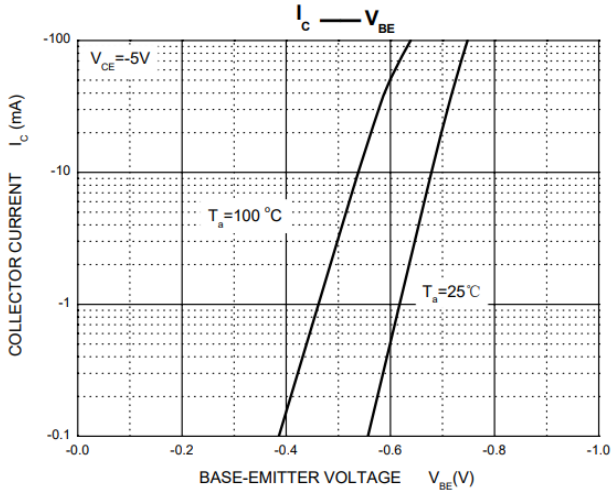
Emitter–Base Breakdown Voltage	V(BR)EBO	IE = -10 μA, IC = 0	-5		V
Emitter Cutoff Current	IEBO	VEB = -4 V, IC = 0		-0.1	uA
Collector Cutoff Current	ICBO	VCB = -120 V, IE = 0		-0.1	uA
DC current gain	hFE(1)	IC = -1 mA, VCE = -5 V	80		
DC current gain	hFE(2)	IC = -10 mA, VCE = -5V	100	300	
DC current gain	hFE(3)	IC = -50 mA, VCE = -5 V	50		
Collector-Emitter Saturation voltage	VCE(sat)	IC = -50 mA, IB = -5 mA		-0.5	V
Base–Emitter Saturation Voltage	VBE(sat)	IC = -50 mA, IB = -5 mA		-1	V
Transition frequency	fT	IC = -10mA, VCE= -5V, f = 30MHz	100		MHz

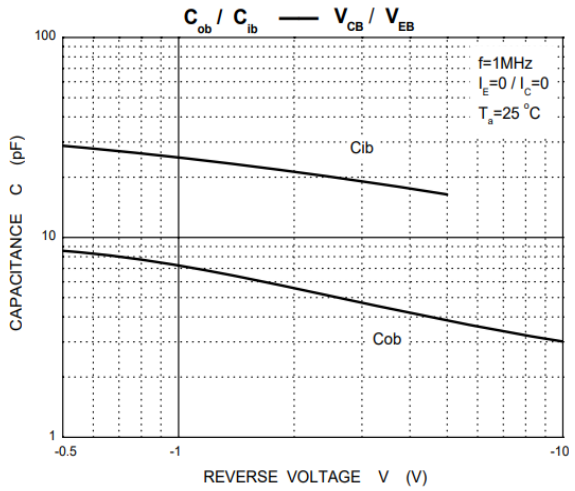
CLASSIFICATION OF hFE (2)

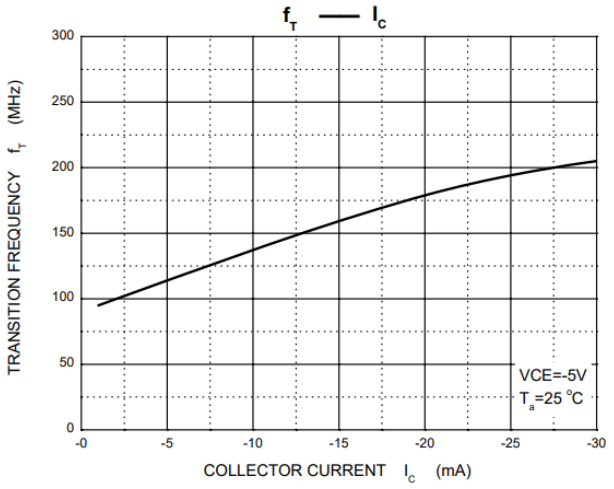
RANK	L	M
RANGE	100-200	200-300

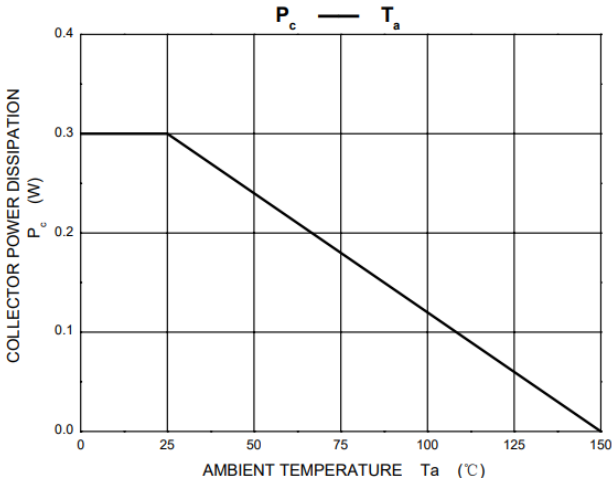
7. ELECTRICAL CHARACTERISTICS CURVES



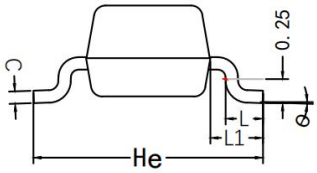


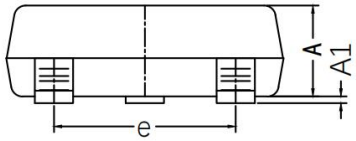


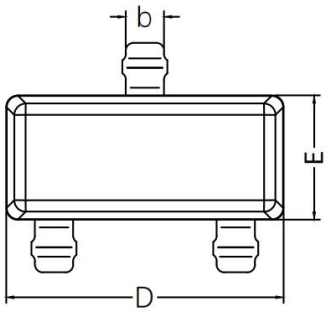




8. OUTLINE AND DIMENSIONS

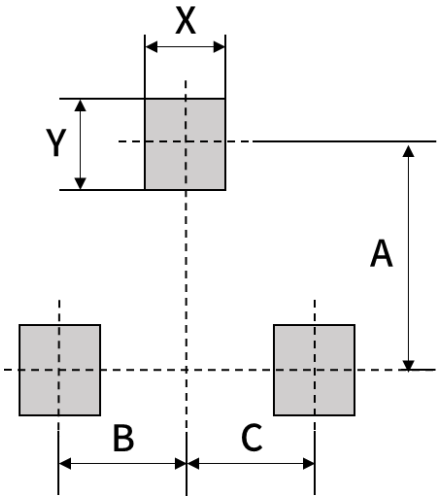






DIM	MIN	NOR	MAX
A	0.85	0.95	1.05
A1	0.01	0.06	0.10
b	0.36	0.44	0.52
c	0.09	0.13	0.18
D	2.80	2.90	3.10
E	1.20	1.30	1.40
e	1.78	1.90	2.04
L	0.30	0.40	0.50
L1	0.35	0.50	0.65
He	2.10	2.35	2.50
θ	0°	-	10°
All Dimensions in mm			

9. SUGGESTED PAD LAYOUT



SOT23		
DIM	mm	inch
A	2.00	0.079
B	0.95	0.037
C	0.95	0.037
X	0.80	0.031
Y	0.90	0.035

10. DISCLAIMER

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