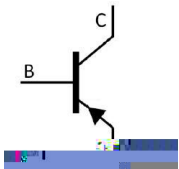


Silicon PNP transistor in a TO-92LM Plastic Package.

Complementary pair with 2SD788.

Low frequency power amplifier.



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classification Making

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-20	V
Collector to Emitter Voltage	V_{CEO}	-20	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current (DC)	I_C	-2.0	A
Collector Power Dissipation	P_C	0.9	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

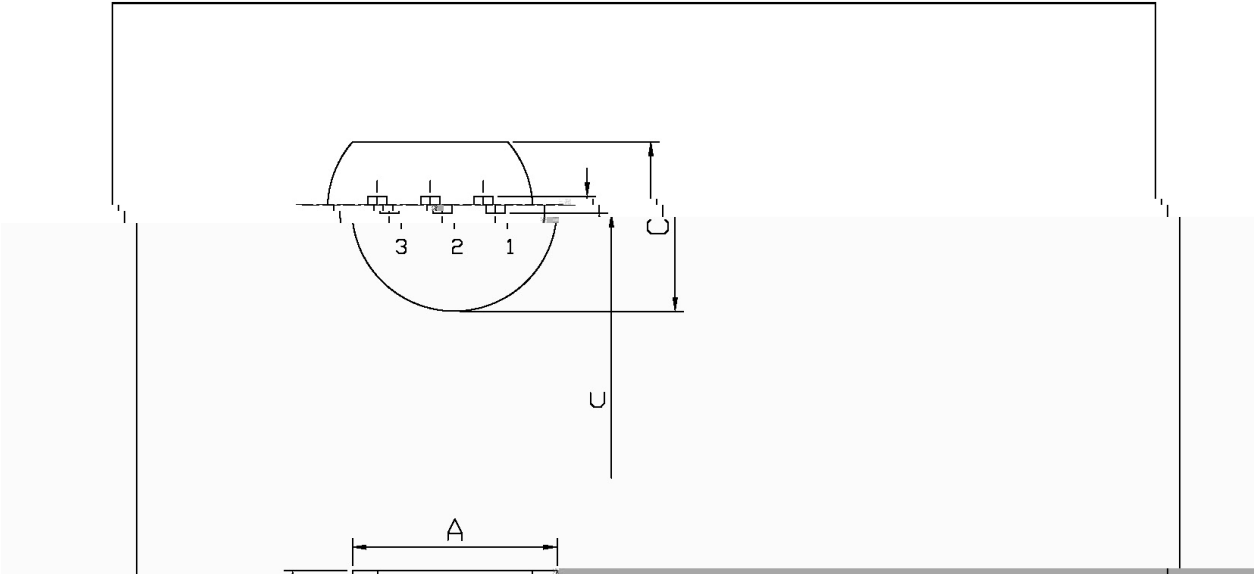
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-10\mu A$ $I_E=0$	-20			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0mA$ $R_{BE}=\infty$	-20			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-10\mu A$ $I_C=0$	-6.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-16V$ $I_E=0$			-2.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-6.0V$ $I_C=0$			-0.2	μA
DC Current Gain	h_{FE}	$V_{CE}=-2.0V$ $I_C=-0.1A$	100		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-1.0A$ $I_B=-0.1A$			-0.3	V
Transition Frequency	f_T	$V_{CE}=-2.0V$ $I_C=-10mA$		150		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V$ $f=1.0MHz$ $I_E=0$		50		pF

2SB739

/ Package Dimensions

T0-92LM

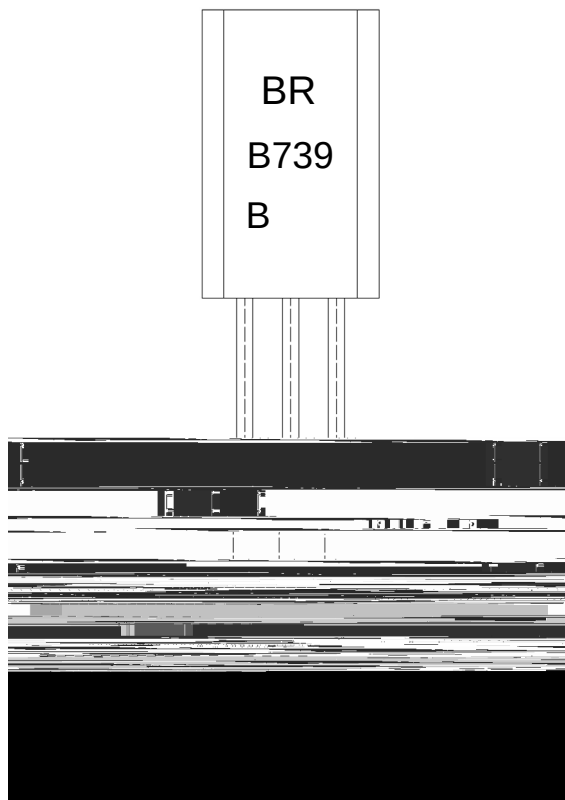
Unit: mm



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.47	5.1

B	1.27	1.27
C	1.27	1.27
U	0.5	0.5
Pin 1	0.5	0.5
Pin 2	0.5	0.5
Pin 3	0.5	0.5
Pin 4	0.5	0.5
Pin 5	0.5	0.5
Pin 6	0.5	0.5
Pin 7	0.5	0.5
Pin 8	0.5	0.5
Pin 9	0.5	0.5
Pin 10	0.5	0.5
Pin 11	0.5	0.5
Pin 12	0.5	0.5
Pin 13	0.5	0.5
Pin 14	0.5	0.5
Pin 15	0.5	0.5
Pin 16	0.5	0.5
Pin 17	0.5	0.5
Pin 18	0.5	0.5
Pin 19	0.5	0.5
Pin 20	0.5	0.5
Pin 21	0.5	0.5
Pin 22	0.5	0.5
Pin 23	0.5	0.5
Pin 24	0.5	0.5
Pin 25	0.5	0.5
Pin 26	0.5	0.5
Pin 27	0.5	0.5
Pin 28	0.5	0.5
Pin 29	0.5	0.5
Pin 30	0.5	0.5
Pin 31	0.5	0.5
Pin 32	0.5	0.5
Pin 33	0.5	0.5
Pin 34	0.5	0.5
Pin 35	0.5	0.5
Pin 36	0.5	0.5
Pin 37	0.5	0.5
Pin 38	0.5	0.5
Pin 39	0.5	0.5
Pin 40	0.5	0.5
Pin 41	0.5	0.5
Pin 42	0.5	0.5
Pin 43	0.5	0.5
Pin 44	0.5	0.5
Pin 45	0.5	0.5
Pin 46	0.5	0.5
Pin 47	0.5	0.5
Pin 48	0.5	0.5
Pin 49	0.5	0.5
Pin 50	0.5	0.5
Pin 51	0.5	0.5
Pin 52	0.5	0.5
Pin 53	0.5	0.5
Pin 54	0.5	0.5
Pin 55	0.5	0.5
Pin 56	0.5	0.5
Pin 57	0.5	0.5
Pin 58	0.5	0.5
Pin 59	0.5	0.5
Pin 60	0.5	0.5
Pin 61	0.5	0.5
Pin 62	0.5	0.5
Pin 63	0.5	0.5
Pin 64	0.5	0.5
Pin 65	0.5	0.5
Pin 66	0.5	0.5
Pin 67	0.5	0.5
Pin 68	0.5	0.5
Pin 69	0.5	0.5
Pin 70	0.5	0.5
Pin 71	0.5	0.5
Pin 72	0.5	0.5
Pin 73	0.5	0.5
Pin 74	0.5	0.5
Pin 75	0.5	0.5
Pin 76	0.5	0.5
Pin 77	0.5	0.5
Pin 78	0.5	0.5
Pin 79	0.5	0.5
Pin 80	0.5	0.5
Pin 81	0.5	0.5
Pin 82	0.5	0.5
Pin 83	0.5	0.5
Pin 84	0.5	0.5
Pin 85	0.5	0.5
Pin 86	0.5	0.5
Pin 87	0.5	0.5
Pin 88	0.5	0.5
Pin 89	0.5	0.5
Pin 90	0.5	0.5
Pin 91	0.5	0.5
Pin 92	0.5	0.5
Pin 93	0.5	0.5
Pin 94	0.5	0.5
Pin 95	0.5	0.5
Pin 96	0.5	0.5
Pin 97	0.5	0.5
Pin 98	0.5	0.5
Pin 99	0.5	0.5
Pin 100	0.5	0.5

/ Marking Instruct/9.M



Note:

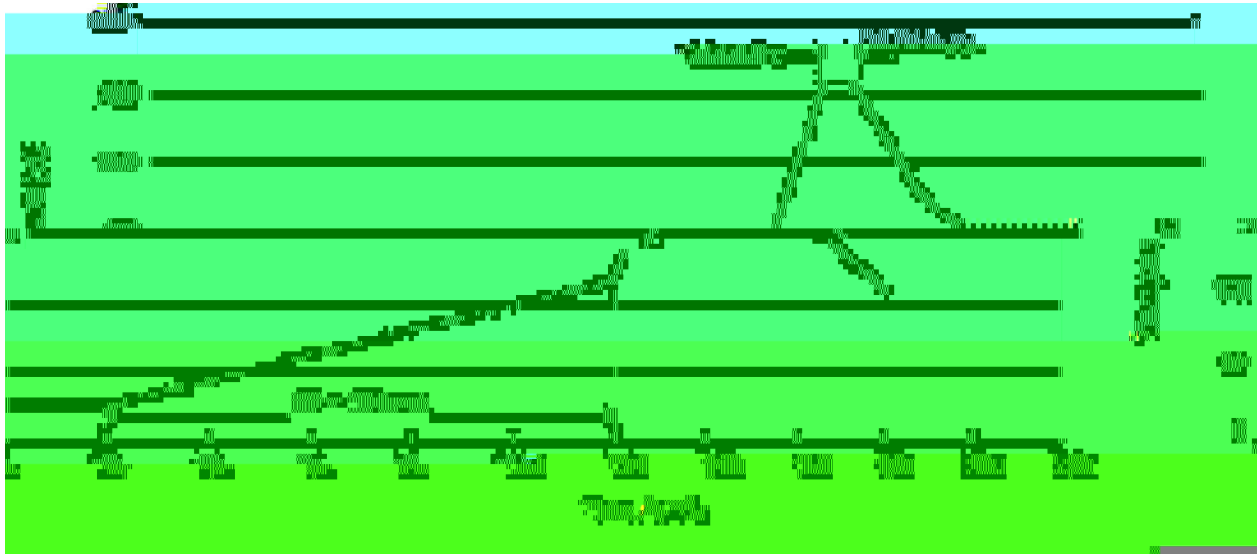
BR: Company Code.

B739: Product Type.

B: h_{FE} Classificat/9.M Symbol

****: Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-----|-----|----|----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255 | 5 | 5 | 0.5sec; | 2.Peak Temp.:255 5 , Duration:5 0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm3)

/ AMMO

Package Type	Units					Dimension		(unit mm3)