

2SC2632
Rev.E Mar.-2016

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

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Satisfactory linearity of forward current transfer ratio h_{FE} , High collector to emitter Voltage V_{CEO} , Small collector output capacitance C_{ob} .

2SA1124

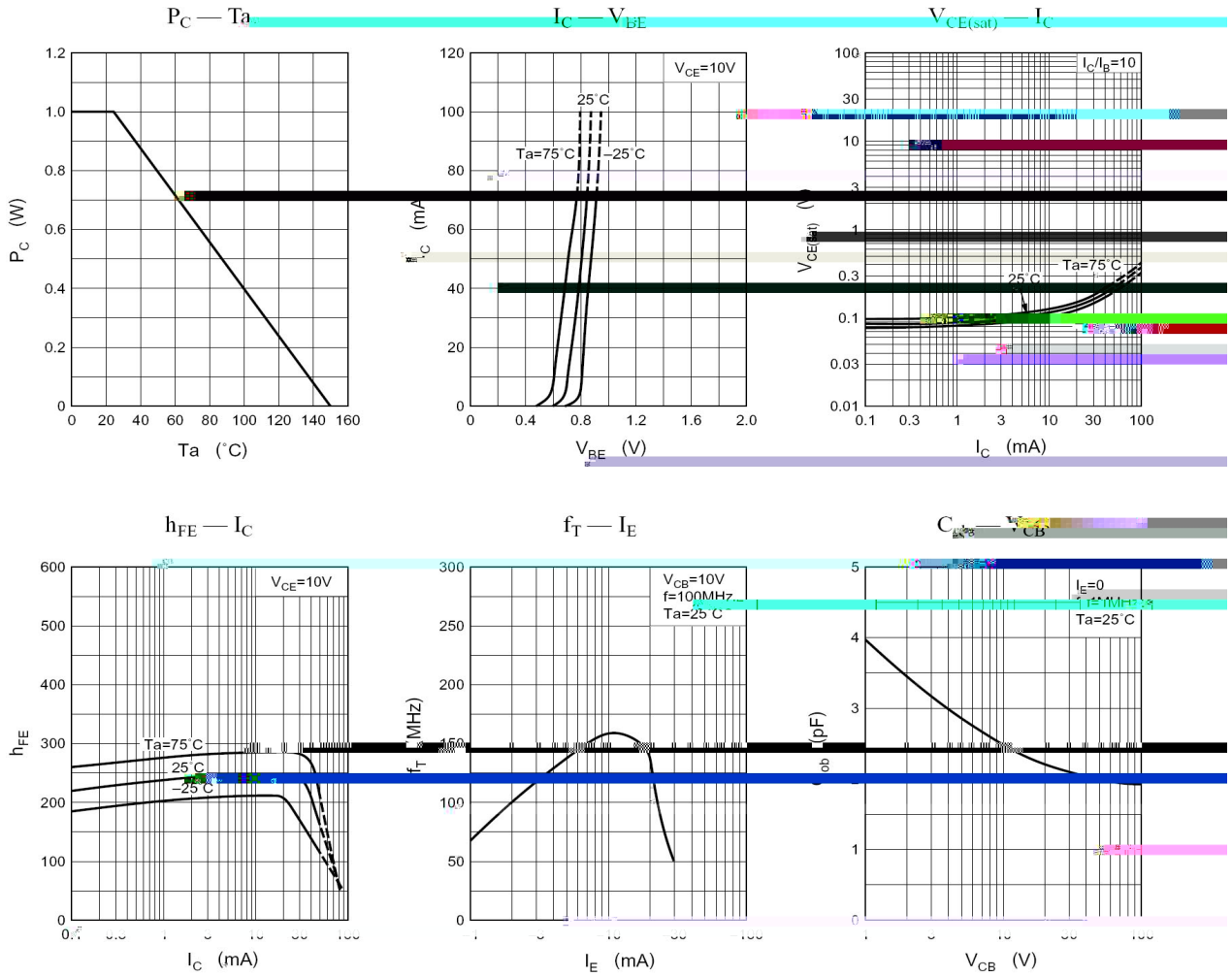
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	150	V
Collector to Emitter Voltage	V_{CEO}	150	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current (DC)	I_C	50	mA
Collector Current (Pulse)	I_{CP}	100	mA
Collector Power Dissipation	P_C	1	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 Emitter Breakdown Voltage	V_{CEO}	$I_C=0.1mA$ $I_B=0$	150			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10 A$ $I_C=0$	5			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=100V$ $I_E=0$			1	A
DC Current Gain	h_{FE}	$V_{CE}=5V$ $I_C=10mA$	130		330	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=30mA$ $I_B=3mA$			1	V
Transition Frequency	f_T	$V_{CB}=10V$ $I_E=-10mA$ $f=200MHz$		160		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1MHz$			3	pF
Noise Voltage	NV	$V_{CE}=10V$ $I_C=1mA$ $G_V=80dB$ $R_g=100k$ Function=FLAT		150	300	mV

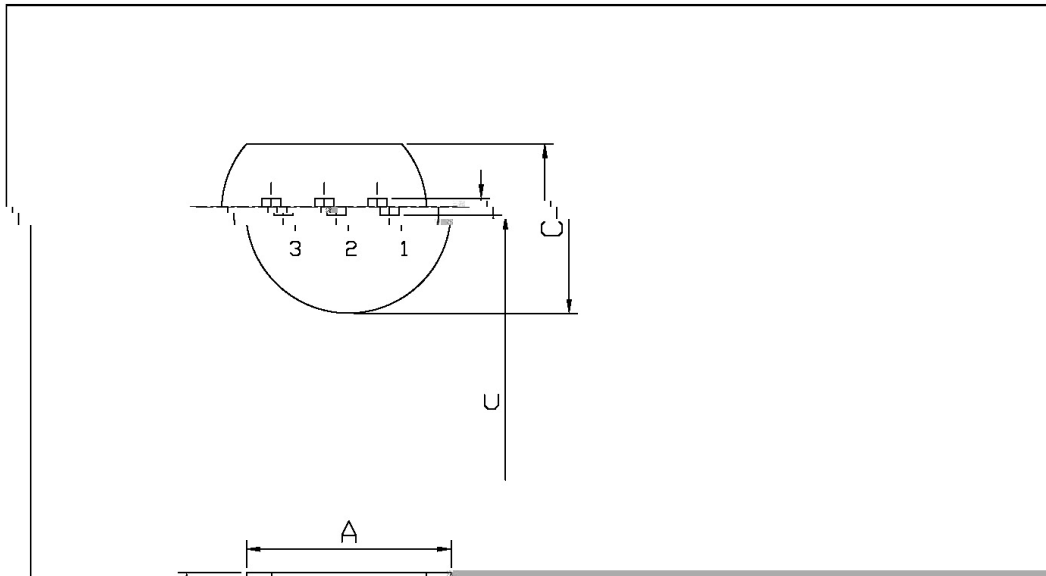
/ Electrical Characteristic Curve



/ Package Dimensions

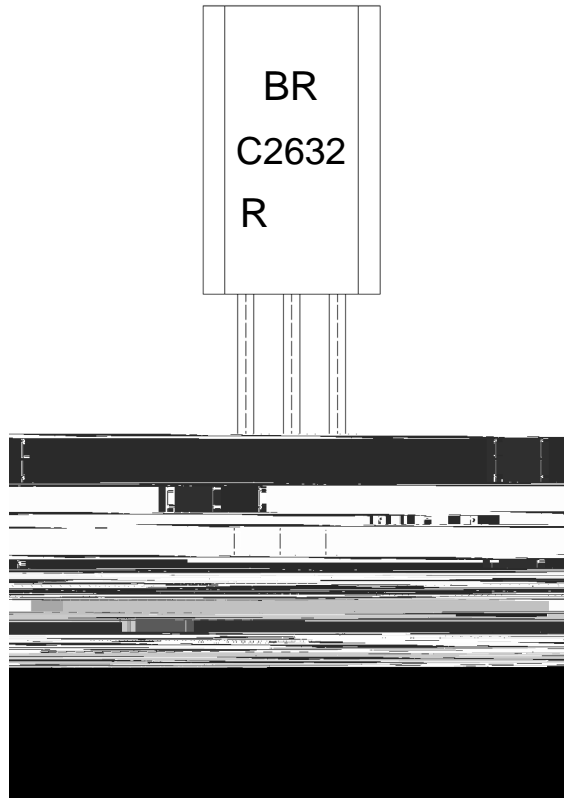
TO-92LM

Unit: mm



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.47	5.1
B	4.47	5.1
C	4.47	5.1
D	4.47	5.1
E	4.47	5.1
F	4.47	5.1
G	4.47	5.1
H	4.47	5.1
I	4.47	5.1
J	4.47	5.1
K	4.47	5.1
L	4.47	5.1
M	4.47	5.1
N	4.47	5.1
O	4.47	5.1
P	4.47	5.1
Q	4.47	5.1
R	4.47	5.1
S	4.47	5.1
T	4.47	5.1
U	4.47	5.1
V	4.47	5.1
W	4.47	5.1
X	4.47	5.1
Y	4.47	5.1
Z	4.47	5.1

/ Marking Instructions



BR:

C2632

R: h_{FE}

Note:

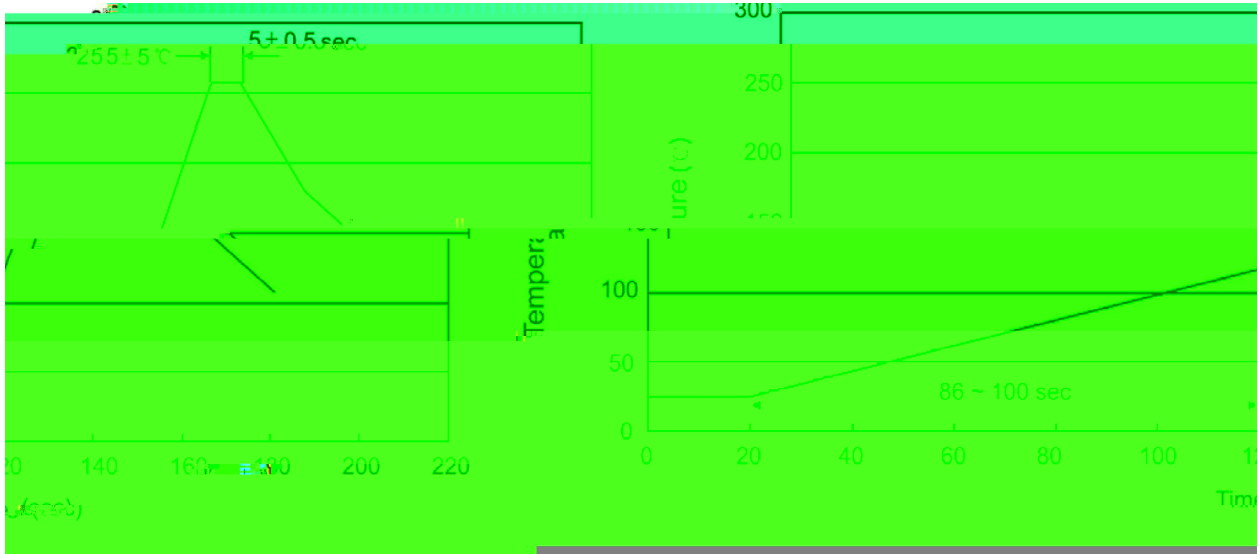
BR: Company Code.

C2632: Product Type.

R: h_{FE} Classifications 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 mm ³)

/ AMMO

Package Type	Units				Dimension		(unit mm ³)

/ Notices