

**2SC2632**  
Rev.E Mar.-2016

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

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

2SA1124

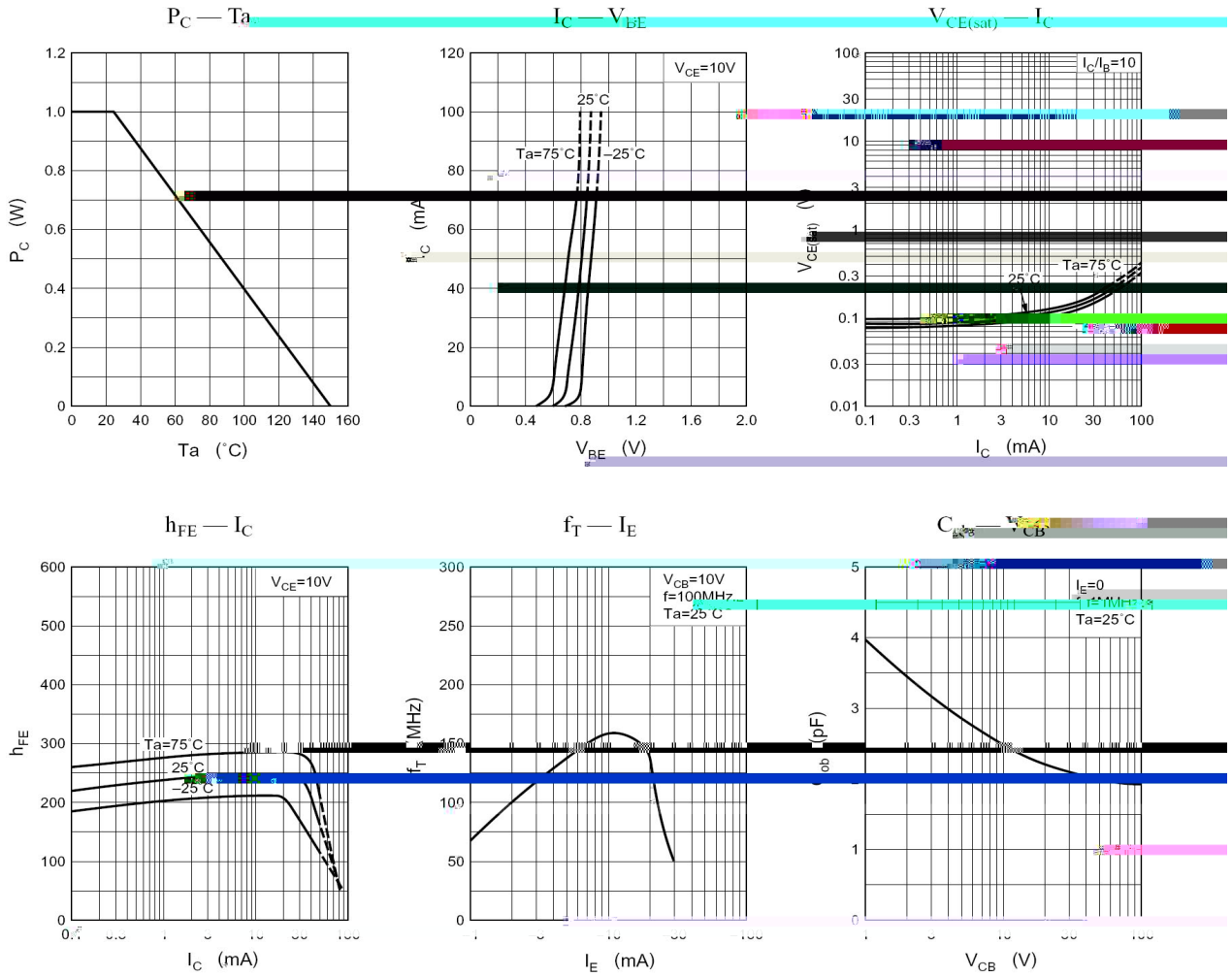
**/ Absolute Maximum Ratings(Ta=25 )**

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

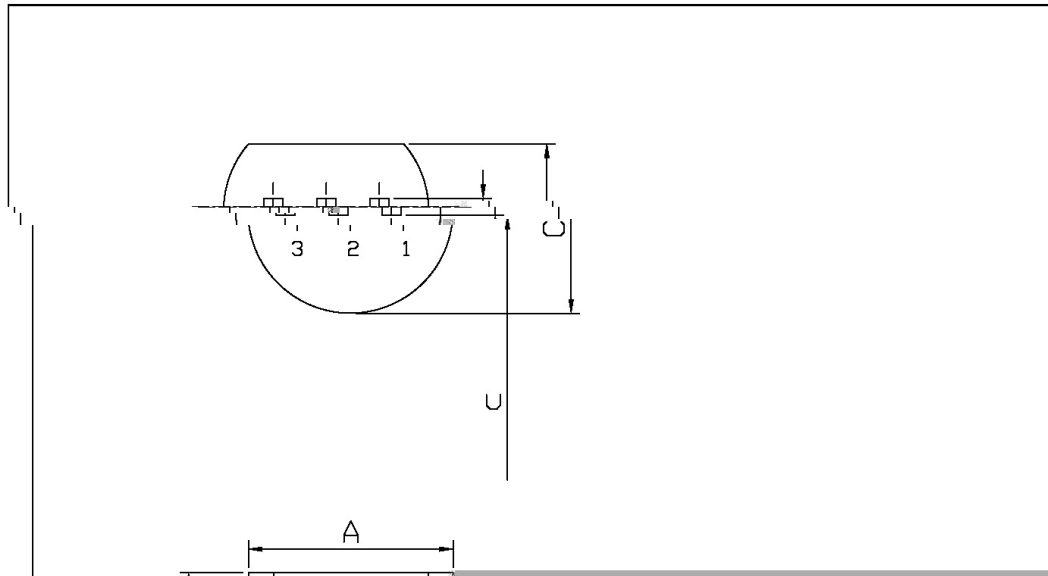
/ Electrical Characteristic Curve



/ Package Dimensions

TO-92LM

Unit: mm



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.7	5.1
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		
Q		
R		
S		
T		
U		
V		
W		
X		
Y		
Z		
a		
b		
c		
d		
e		
f		
g		
h		
i		
j		
k		
l		
m		
n		
o		
p		
q		
r		
s		
t		
u		
v		
w		
x		
y		
z		

/ Marking Instructions



BR:

C2632

R:  $h_{FE}$

\*\*\*\*

Note:

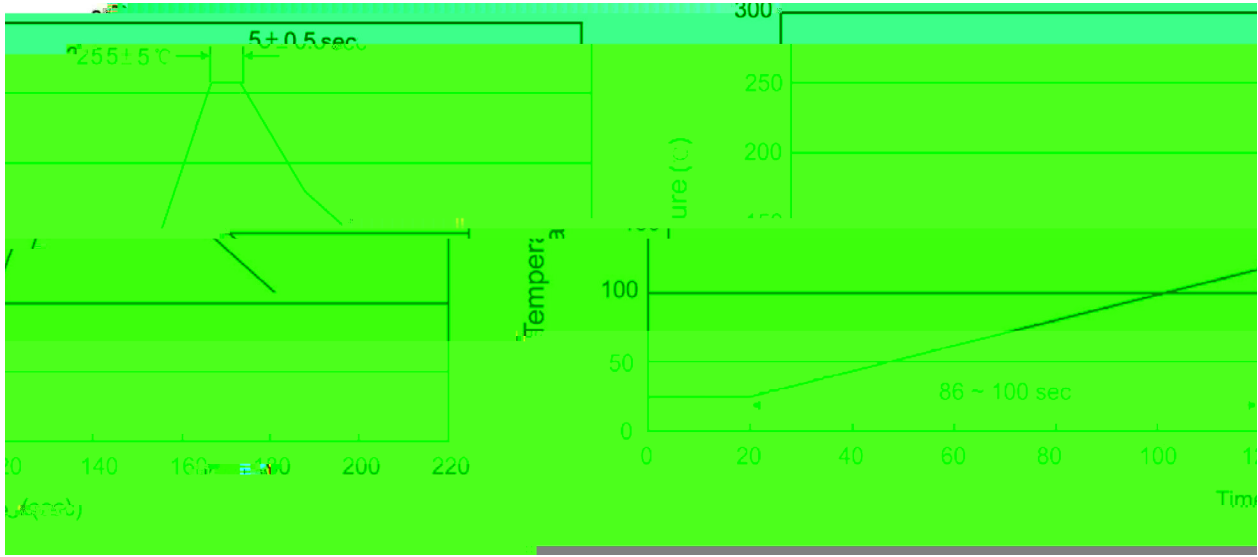
BR: Company Code.

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 <sup>3</sup> )

/ AMMO

Package Type	Units				Dimension		(unit mm <sup>3</sup> )

/ Notices