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

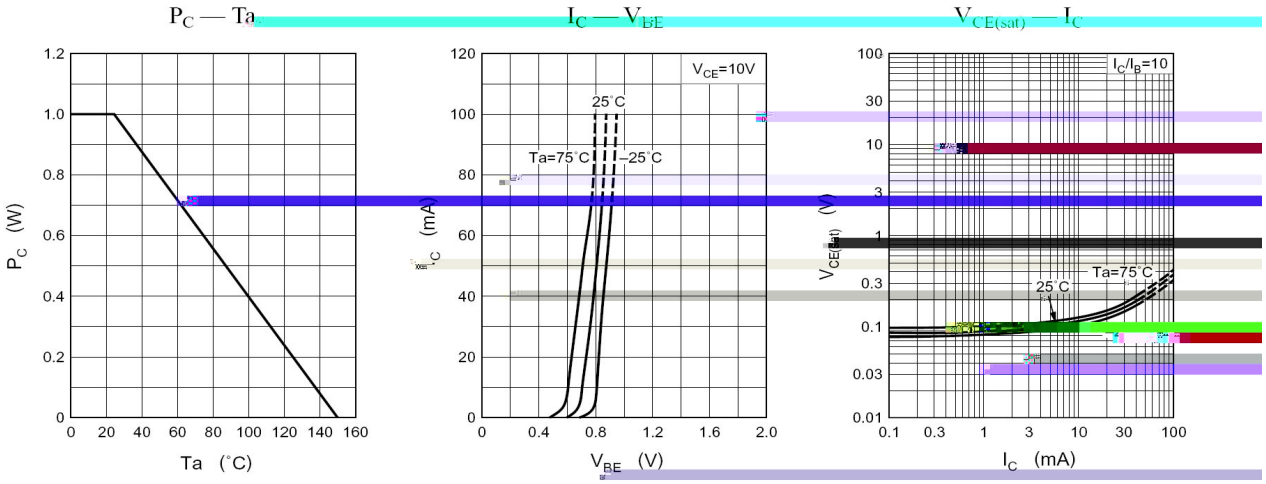
/ Absolute Maximum Ratings(Ta=25)

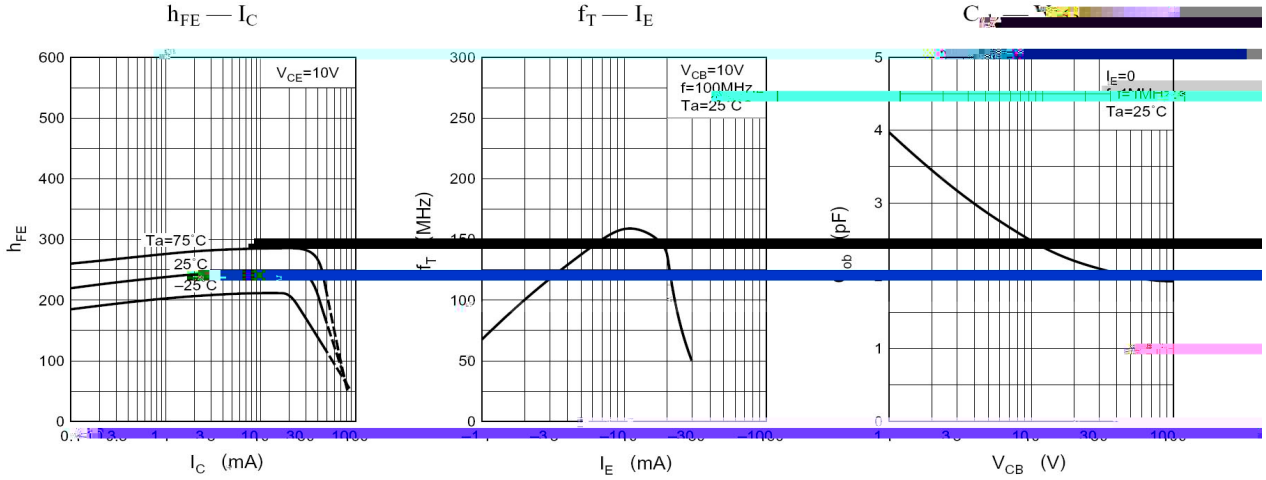
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	150	V
Collector to Emitter Voltage	V_{CEO}	150	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current (DC)	I_C	50	mA
Collector Current (Pulse)	I_{CP}	100	mA
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	
Storage Temperature 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=10μA I_C=0	5			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=100V I_E=0			1	μA
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 Rg=100kΩ Function=FLAT		150	300	mV

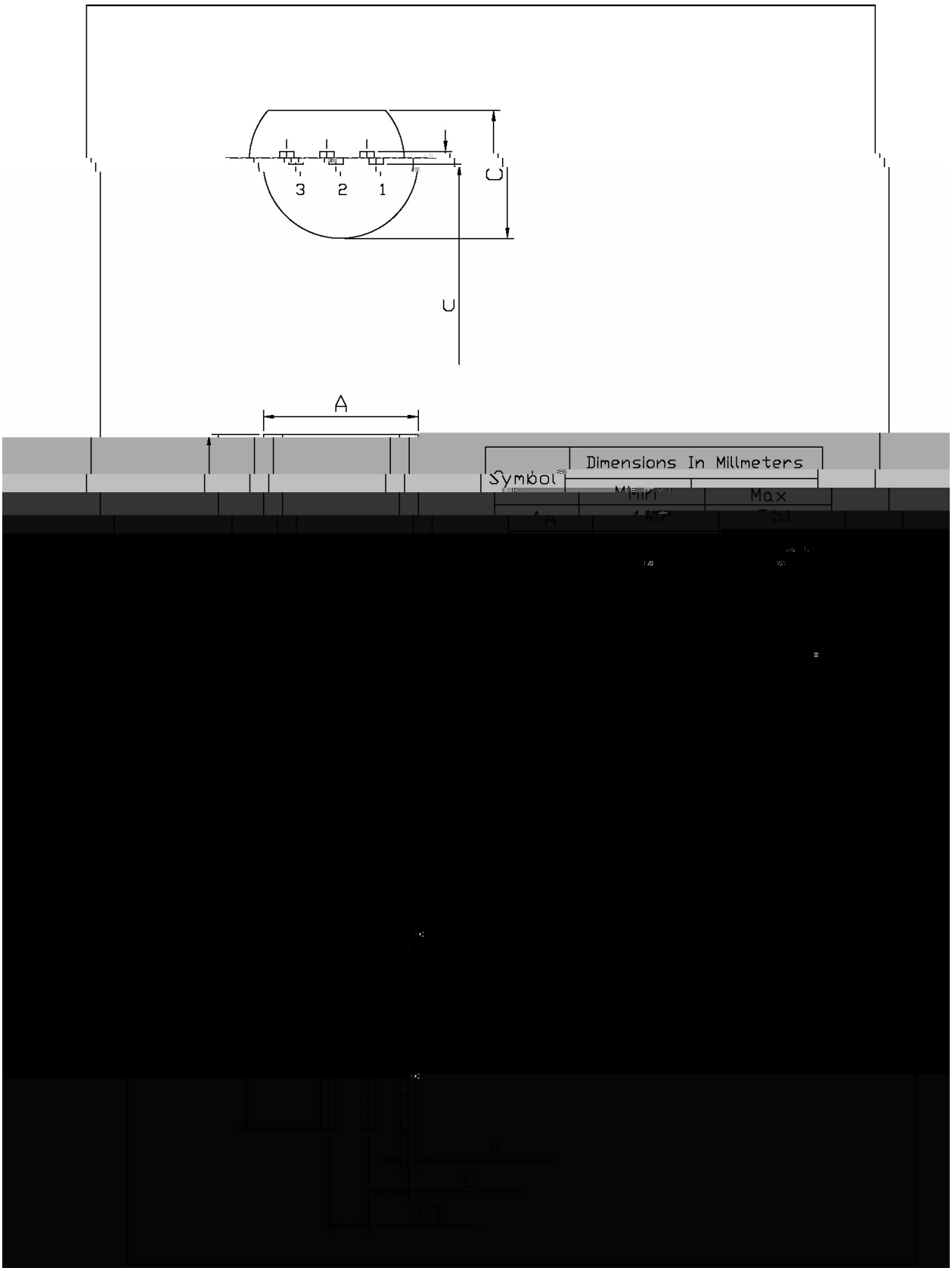
/ Electrical Characteristic Curve



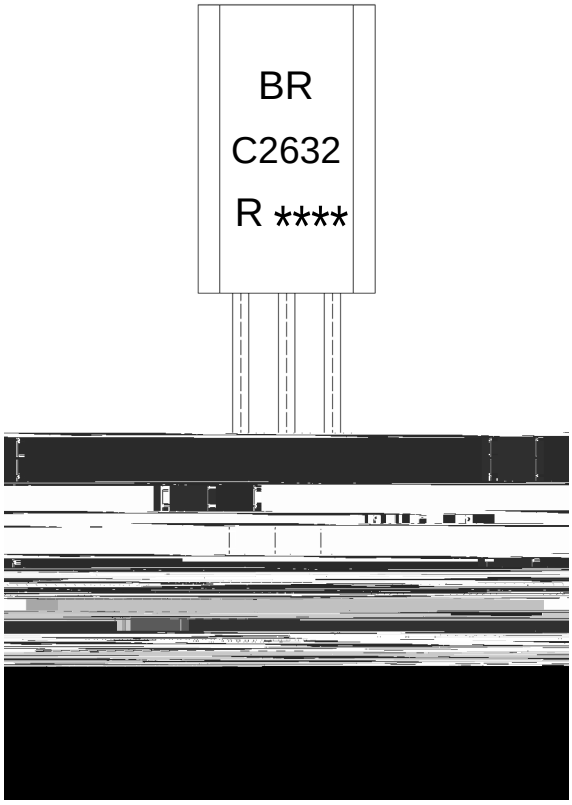


/ Package Dimensions

TO-92LM Unit: mm



/ Marking Instructions



BR:

C2632

R: h_{FE}

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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 mm3)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-92LM	1,000	8	8,000	5	40,000	135×190	237×172×102	560×245×195

/ AMMO

Package Type	Units					Dimension	(unit mm3)
	Units/tape /	Tape/Inner Box /	Rows/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Inner Box	Outer Box
TO-92LM	2,500	1	100	10	25,000	328×230×42	480×346×235 547×407×268

/ Notices