

/ Descriptions

Silicon PNP transistor in a TO-92 Plastic Package.

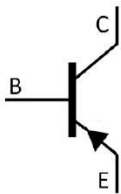
/ Features

Complementary pair with KSD471A.

/ Applications

Audio frequency power amplifier.

/ Equivalent Circuit



/ Pinning



PIN1 Collector PIN 2 Base PIN 3 Emitter

/ hFE Classifications & Marking

h _{FE} Classifications Symbol	O	Y	G
h _{FE} Range	70~140	120~240	200~400

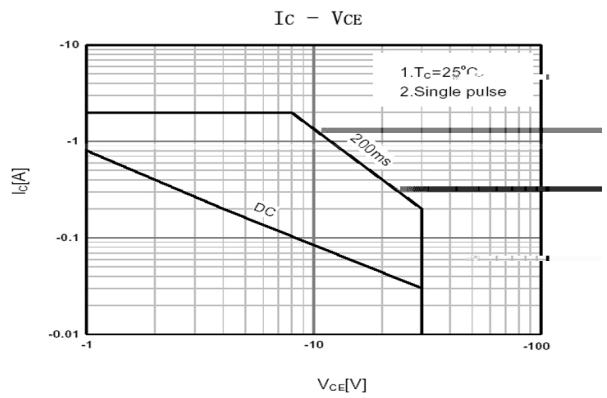
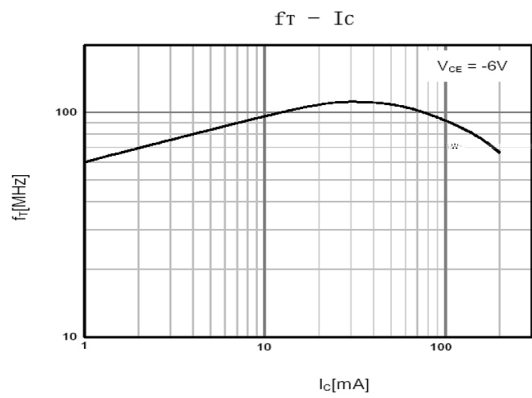
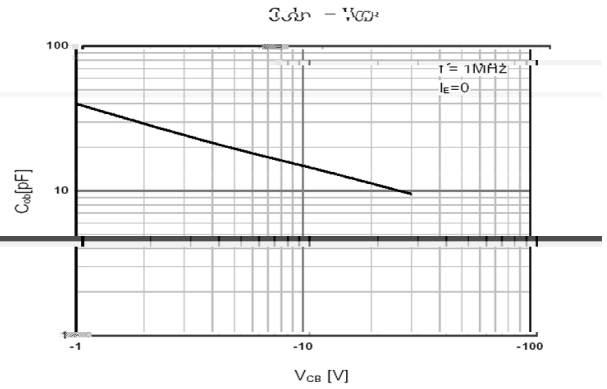
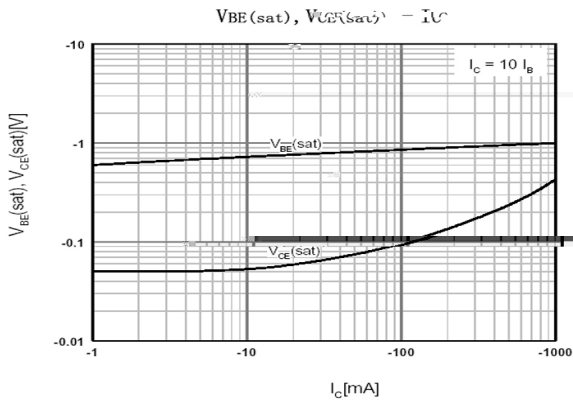
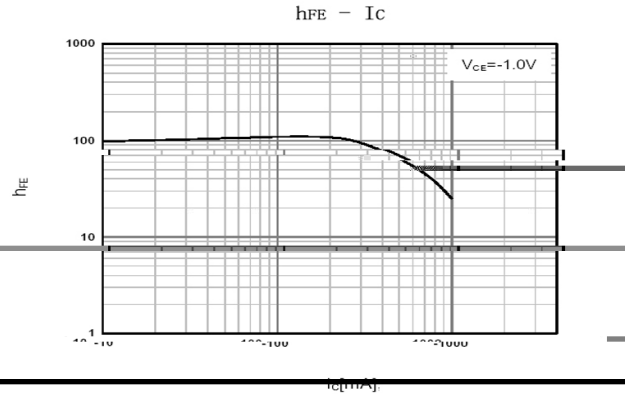
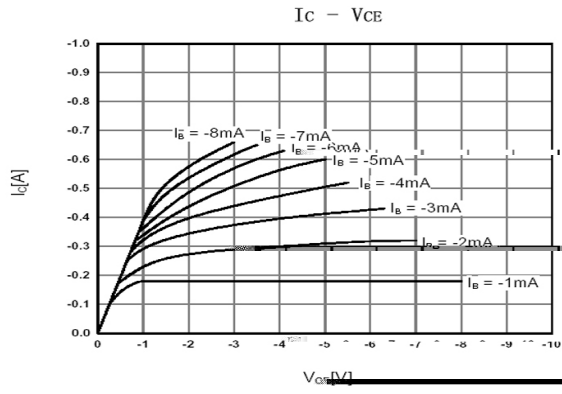
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-25	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-1.0	A
Collector Power Dissipation	P_C	800	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-100\mu A$ $I_E=0$	-30			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-10mA$ $I_B=0$	-25			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-100\mu A$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-30V$ $I_E=0$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=-1.0V$ $I_C=-100mA$	70		400	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-1.0A$ $I_B=-0.1A$			-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-1.0A$ $I_B=-0.1A$			-1.2	V
Transition Frequency	f_T	$V_{CE}=-6.0V$ $I_C=-10mA$		110		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-6.0V$ $I_E=0$ $f=1.0MHz$		18		pF

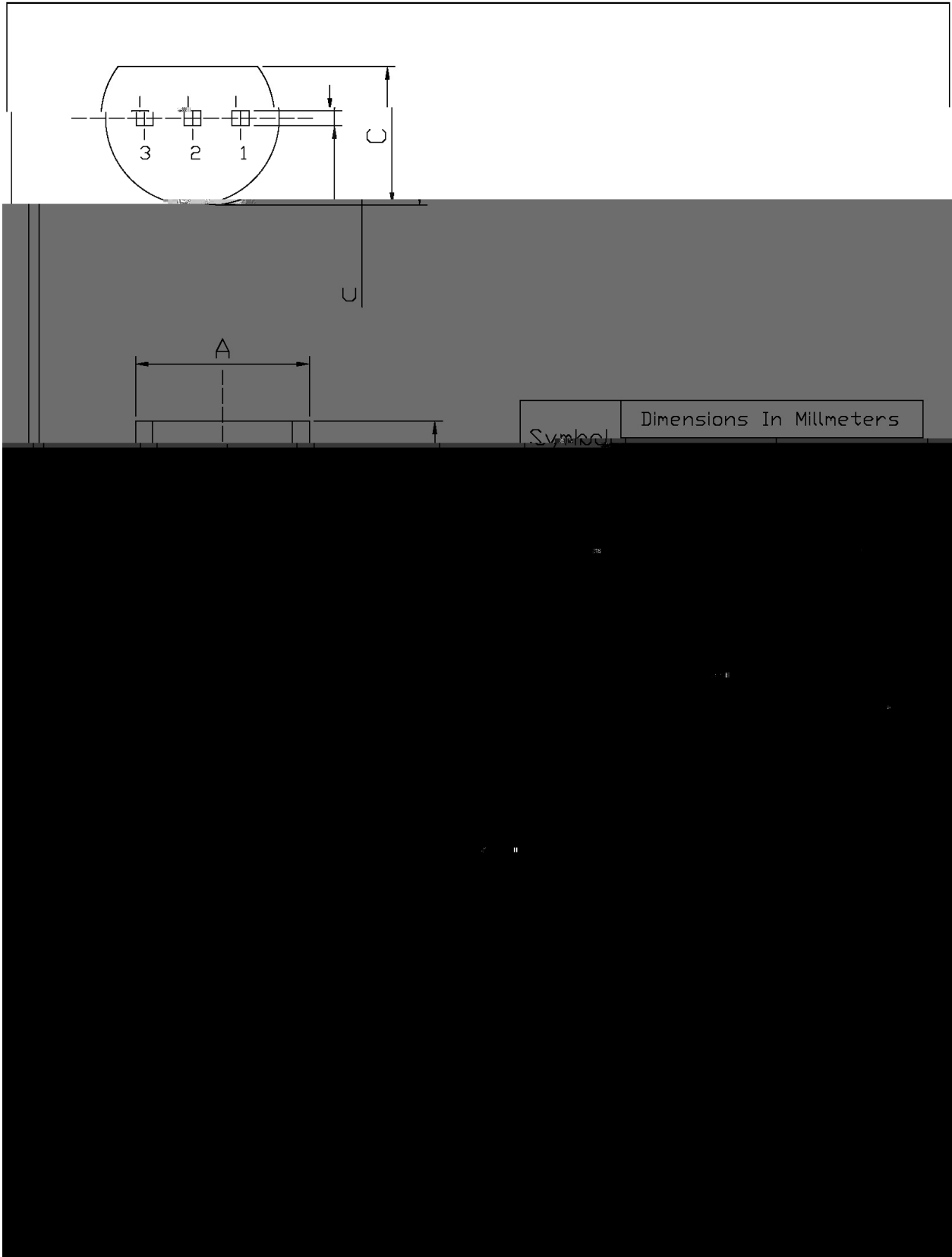
/ Electrical Characteristic Curve



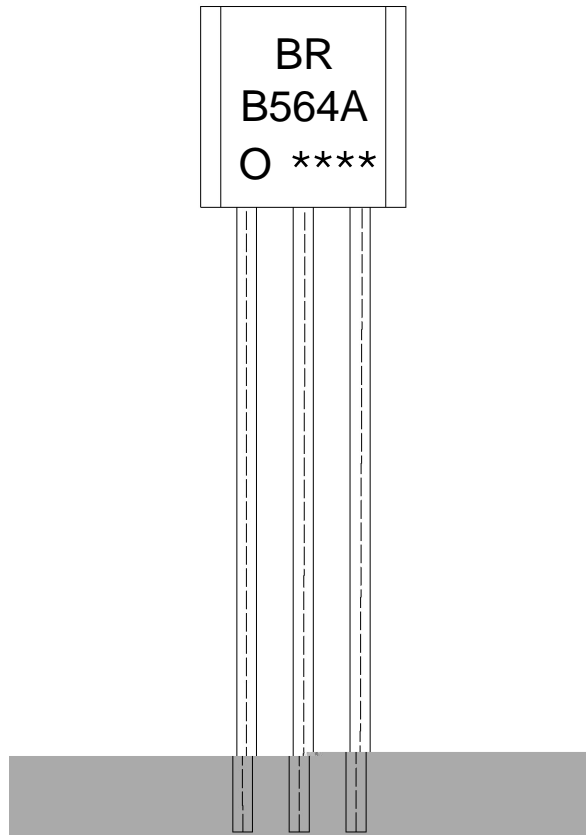
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



Note:

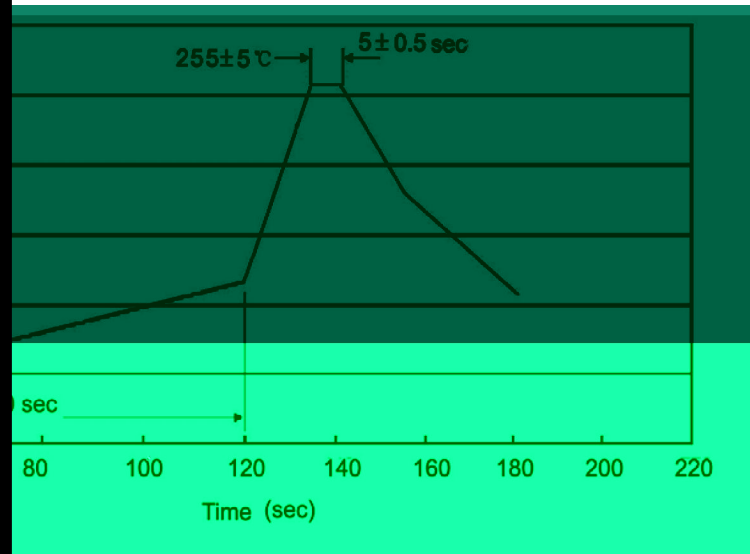
BR: Company Code.

B564A: Product Type.

O: h_{FE} Classifications Symbol

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

Profile for Dip Soldering(Pb-Free)



Note:

1. Preheating: $25 \sim 150^\circ\text{C}$, Time: $60 \sim 90 \text{ sec}$.
2. Peak Temp.: $255 \pm 5^\circ\text{C}$, Duration: $5 \pm 0.5 \text{ sec}$.
3. Cooling Speed: $2 \sim 10^\circ\text{C}/\text{sec}$.

Soldering Heat Test Conditions

Temp: $270 \pm 5^\circ\text{C}$

Time: $10 \pm 1 \text{ sec}$

		Dimension (unit mm ³)		
Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
5	50,000	135×190	237×172×102	560×245×195
10	100,000	135×190	237×172×102	560×245×375

Package Type	Units		Dimension (unit mm ³)
	Units/tape /	Tape/Inner Box /	
		Rows/Inner Box	