

/ Descriptions

TO-92

PNP

Silicon PNP tran4nstot6TO-92 Plastic Package.

/ Features

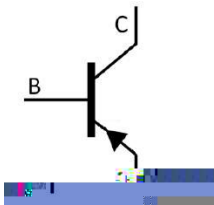
, BC639

High I_C , Complementary pair with BC639.

/ Applications

Driver stages of audio ot6video amplifiers applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base

PIN 2 Collectot6

PIN 3 Emitter

/ hFE Classifications & Marking

h _{FE} Classifications Symbol	10	16
h _{FE} Range	63~160	100~250

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CB0}	-100	V
Collector to Emitter Voltage	V_{CEO}	-80	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-1.0	A
Peak Collector Current	I_{CM}	-1.5	A
Peak Base Current	I_{BM}	-200	mA
Total Power Dissipation	P_{tot}	830	mW
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 Cut-Off Current	I_{CBO}	$V_{CB}=-30V$ $I_E=0$			-0.1	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-0.1	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0V$ $I_C=-150mA$	63		250	
	$h_{FE(2)}$	$V_{CE}=-2.0V$ $I_C=-500mA$	40			
	$h_{FE(3)}$	$V_{CE}=-2.0V$ $I_C=-5.0mA$	63			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA$ $I_B=-50mA$			-0.5	V
Base to Emitter Voltage	V_{BE}	$I_C=-500mA$ $V_{CE}=-2.0V$			-1.0	V
Transition Frequency	f_T	$V_{CE}=-5.0V$ $I_C=-50mA$ $f=100MHz$	100			MHz

BC640

Rev.E Mar.-2016



蓝箭电子
BLUE ROCKET ELECTRONICS

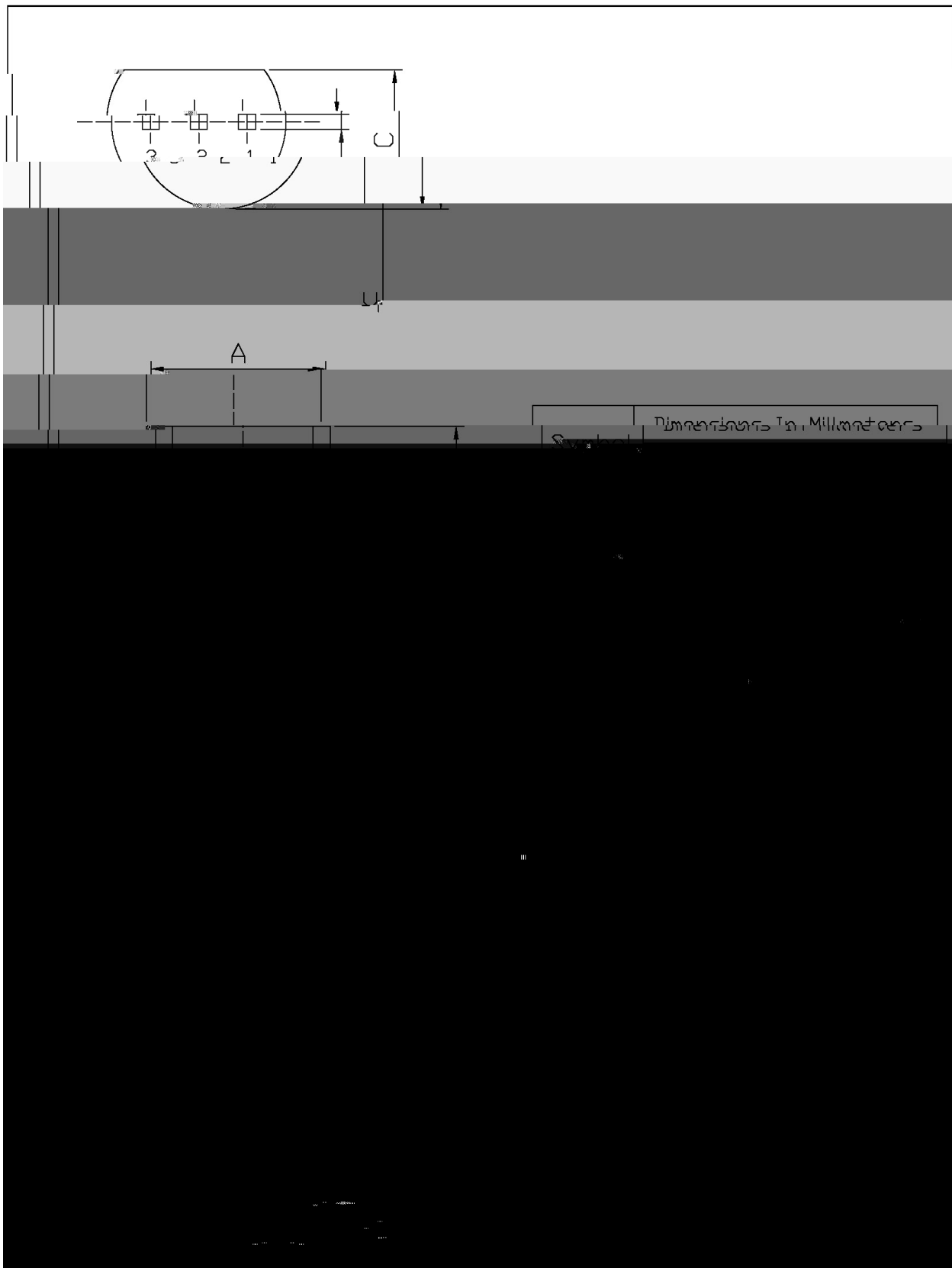
DATA SHEET

/ Electrical Characteristic Curve

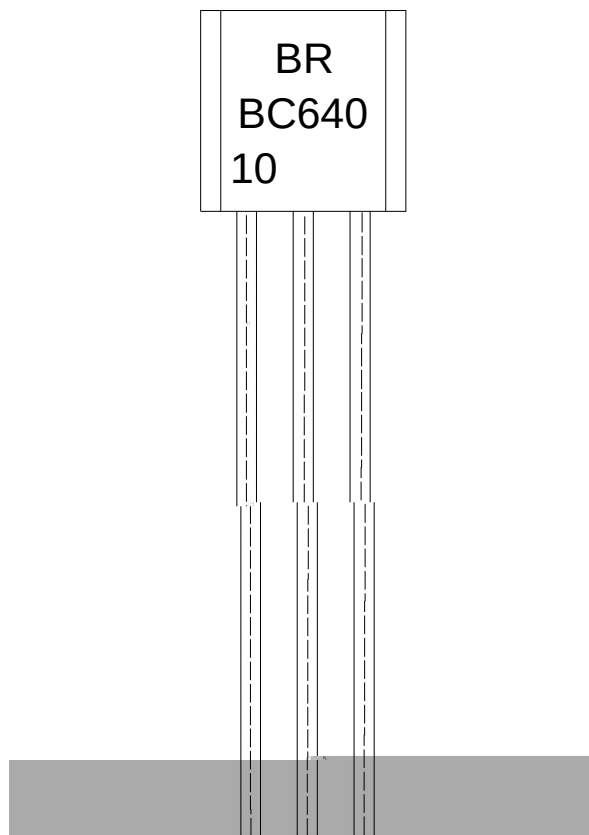
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

BC640

10: h_{FE}

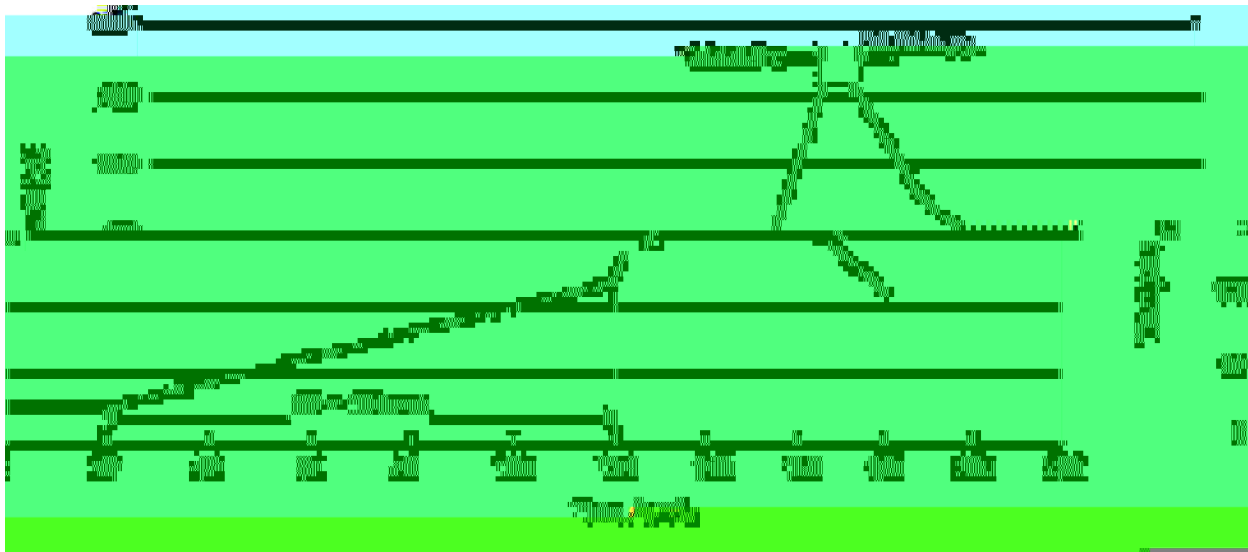
Note:

BR: Company Code.

BC640: Product Type.

10: 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;
 2 255±5 5±0.5sec;
 3 2 10 /sec.

- 1.Preheating:25~150 , Time:60~90sec.
 2.Peak Temp.:255±5 , Duration:5±0.5sec.
 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	只纸带	纸带盒	纸带层盒	盒箱	只箱	盒	箱
							小箱 , 大箱

/ Notices