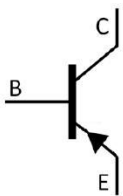


/ Descriptions

Silicon PNP transistor in a TO-92 Plastic Package.

High h_{FE} .

General amplifier application.



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol		Rating	Unit
Collector to Base Voltage	V_{CBO}	2SA564	-25	V
		2SA564A	-45	
Collector to Emitter Voltage	V_{CEO}	2SA564	-25	V
		2SA564A	-45	
Emitter to Base Voltage	V_{EBO}		-7.0	V
Collector Current - Continuous	I_C		-100	mA
Collector Current – Continuous(Pulse)	I_{CP}		-200	mA
Collector Power Dissipation	P_C		400	mW
Junction Temperature	T_j		150	
Storage Temperature Range	T_{stg}		-55 150	

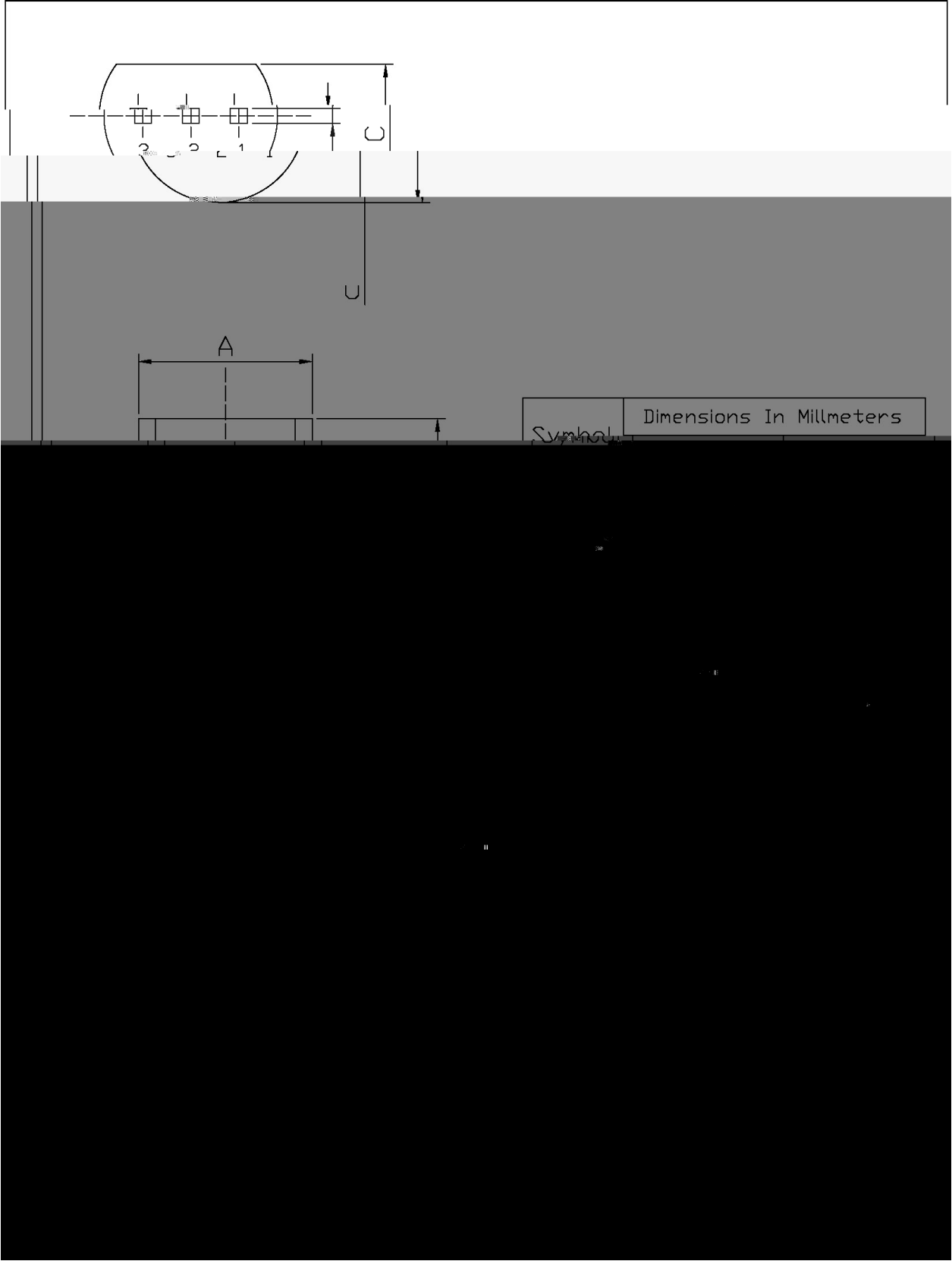
/ Electrical Characteristics(Ta=25)

Parameter	Symbol		Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}		$V_{CB}=-10V$ $I_E=0$		-0.001	-1.0	μA
Collector Cut-Off Current	I_{CEO}		$V_{CE}=-10V$ $I_B=0$			-10	μA
Collector to Base Breakdown Voltage	V_{CBO}	2SA564	$I_C=-10\mu A$ $I_E=0$	-25			V
		2SA564A		-45			
Collector to Emitter Breakdown Voltage	V_{CEO}	2SA564	$I_C=-10\mu A$ $I_E=0$	-25			V
		2SA564A		-45			
Emitter to Base Breakdown Voltage	V_{EBO}		$I_E=-10\mu A$ $I_C=0$	-5.0			V
DC Current Gain	h_{FE}		$V_{CE}=-10V$ $I_C=-2.0mA$	130	250	520	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$		$I_C=-100mA$ $I_B=-10mA$		-0.3		V
Output capacitance	C_{ob}		$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$		3.5		pF

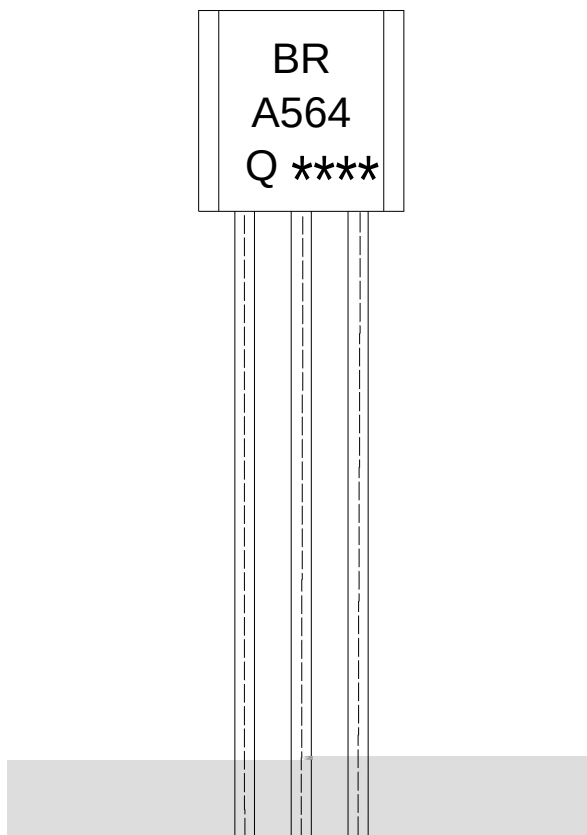
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



Note:

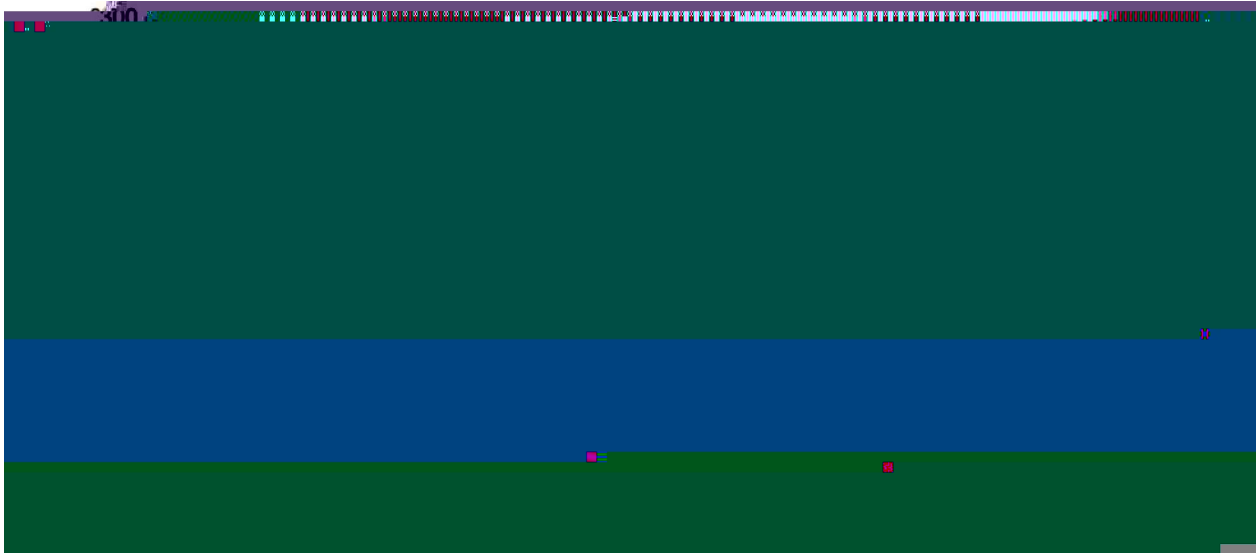
BR: Company Code.

A564: Product Type.

Q: 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-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ 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-92	3,000	1	120	10	30,000	328×230×42	480×346×235
							547×407×268

/ Notices