

# 2SA564(A)

Rev.E Mar.-2016

## / Descriptions

TO-92          PNP          Silicon PNP transistor in a TO-92 Plastic Package.

## / Features

$h_{FE}$

High  $h_{FE}$ .

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

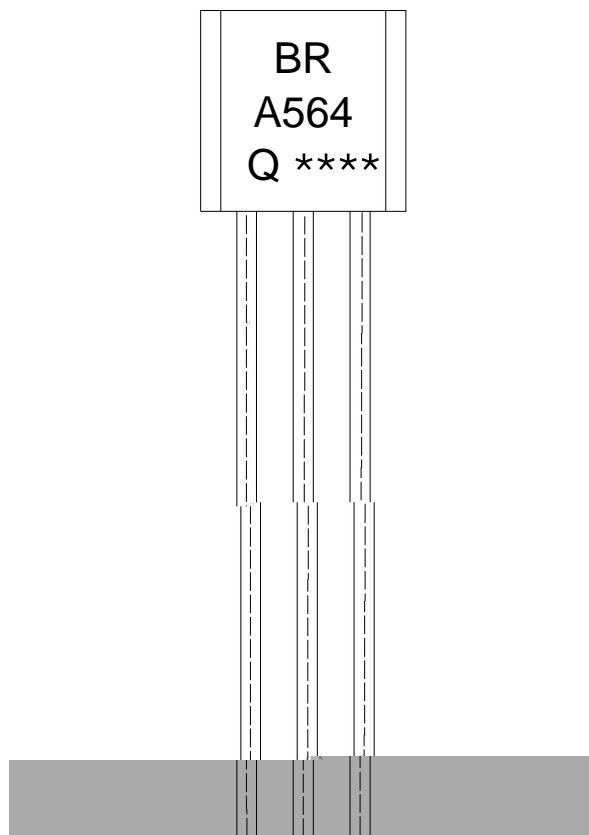
Parameter	Symbol	Rating	Unit	
Collector to Base Voltage	V <sub>CBO</sub>	2SA564	-25	V
		2SA564A	-45	
Collector to Emitter Voltage	V <sub>CEO</sub>	2SA564	-25	V
		2SA564A	-45	
Emitter to Base Voltage	V <sub>EBO</sub>	-7.0	V	
Collector Current - Continuous	I <sub>C</sub>	-100	mA	
Collector Current – Continuous(Pulse)	I <sub>CP</sub>	-200	mA	
Collector Power Dissipation	P <sub>C</sub>	400	mW	
Junction Temperature	T <sub>j</sub>	150		
Storage Temperature Range	T <sub>stg</sub>	-55 150		

**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =-10V I <sub>E</sub> =0		-0.001	-1.0	A
Collector Cut-Off Current	I <sub>CEO</sub>	V <sub>CE</sub> =-10V I <sub>B</sub> =0			-10	A
Collector to Base Breakdown Voltage	V <sub>CBO</sub>	I <sub>C</sub> =-10uA I <sub>E</sub> =0	-25			V
			-45			
Collector to Emitter Breakdown Voltage	V <sub>CEO</sub>	I <sub>C</sub> =-10uA I <sub>E</sub> =0	-25			V
			-45			
Emitter to Base Breakdown Voltage	V <sub>EBO</sub>	I <sub>E</sub> =-10 A I <sub>C</sub> =0	-5.0			V
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =-10V I <sub>C</sub> =-2.0mA	130	250	520	
Collector to Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-100mA I <sub>B</sub> =-10mA		-0.3		V
Output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V f=1.0MHz I <sub>E</sub> =0		3.5		pF

**2SA564(A)**  
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/ Marking Instructions



BR:

A564

Q:  $h_{FE}$

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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