

2SC1473(A)

Rev.E Mar.-2016

/ Descriptions

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

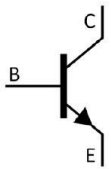
/ Features

f_T , 2SA1018(A)
High V_{CE0} , high f_T , Complementary pair with 2SA1018(A).

/ Applications

General amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ hFE Classifications & Marking

h _{FE} Classifications Symbol	P	Q	R
h _{FE} Range	30~100	60~150	100~220

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol		Rating	Unit
Collector to Base Voltage	V _{CBO}	2SC1473	250	V
		2SC1473A	300	
Collector to Emitter Voltage	V _{CEO}	2SC1473	200	V
		2SC1473A	300	
Emitter to Base Voltage	V _{EBO}		7.0	V
Collector Current - Continuous	I _C		70	mA
Collector Current – Continuous(Pulse)	I _{CP}		100	mA
Collector Power Dissipation	P _C		750	mW
Junction Temperature	T _j		150	°C
Storage Temperature Range	T _{stg}		-55~150	°C

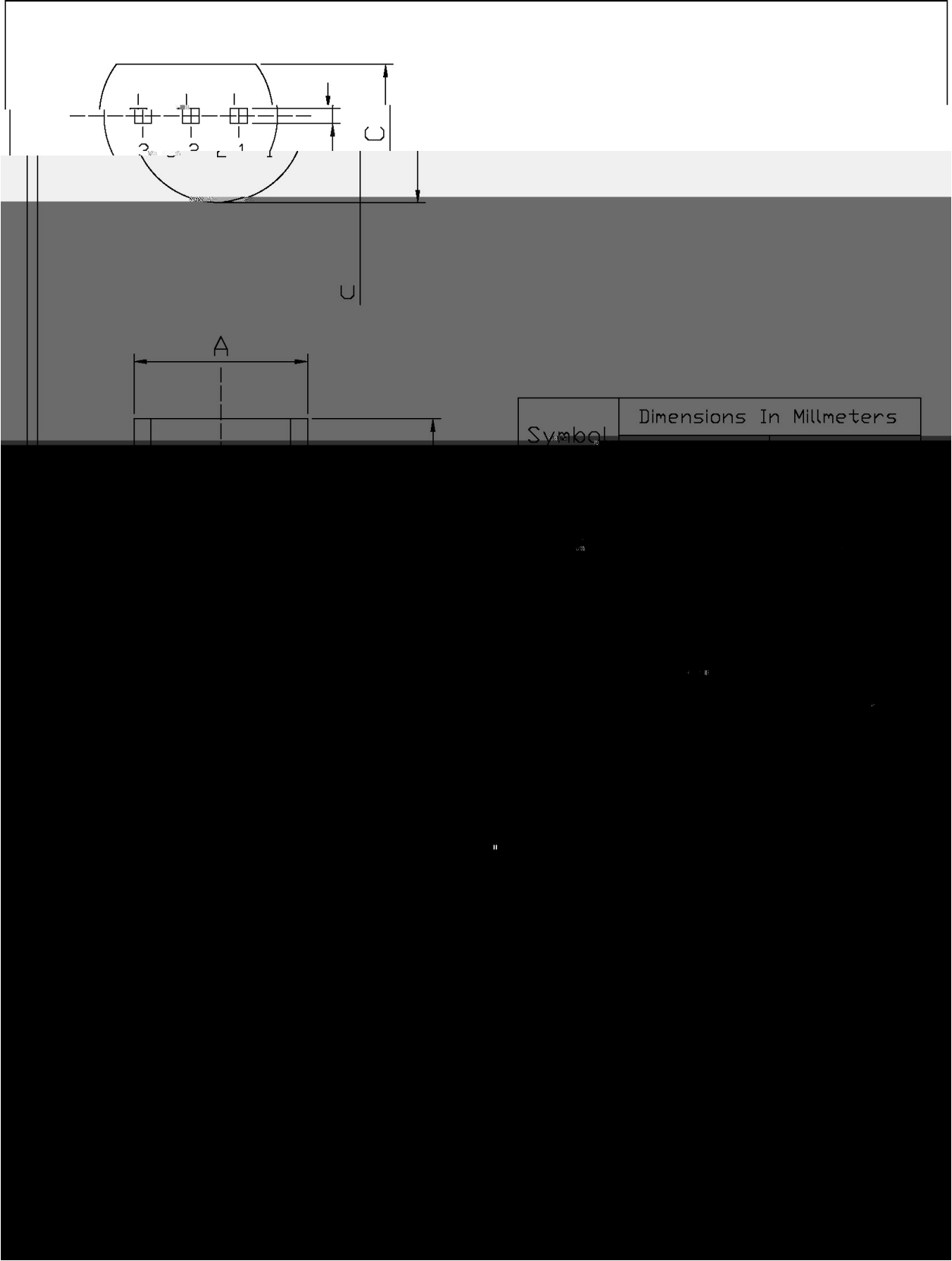
/ Electrical Characteristics(Ta=25)

Parameter	Symbol		Test Conditions	Min	Typ	Max	Unit
Collector to Breakdown Emitter Voltage	V _{CEO}	2SC1473	I _C =100μA I _B =0	200			V
		2SC1473A		300			
Emitter to Base Breakdown Voltage	V _{EBO}		I _E =1.0μA I _C =0	7.0			V
Collector Cut-Off Current	I _{CEO}		V _{CE} =120V I _B =0			1.0	μA
DC Current Gain	h _{FE}		V _{CE} =10V I _C =5.0mA	30		220	
Collector to Emitter Saturation Voltage	V _{CE(sat)}		I _C =50mA I _B =5.0mA			1.5	V
Transition Frequency	f _T		V _{CE} =10V I _C =10mA	50			MHz
Collector Output Capacitance	C _{ob}		V _{CB} =10V f=1.0MHz I _E =0			10	pF

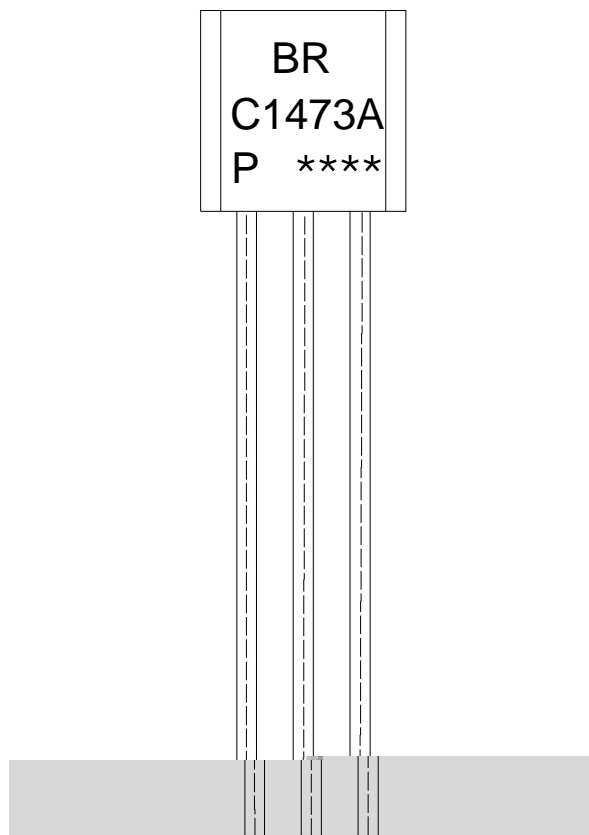
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

C1473A

P: h_{FE}

Note:

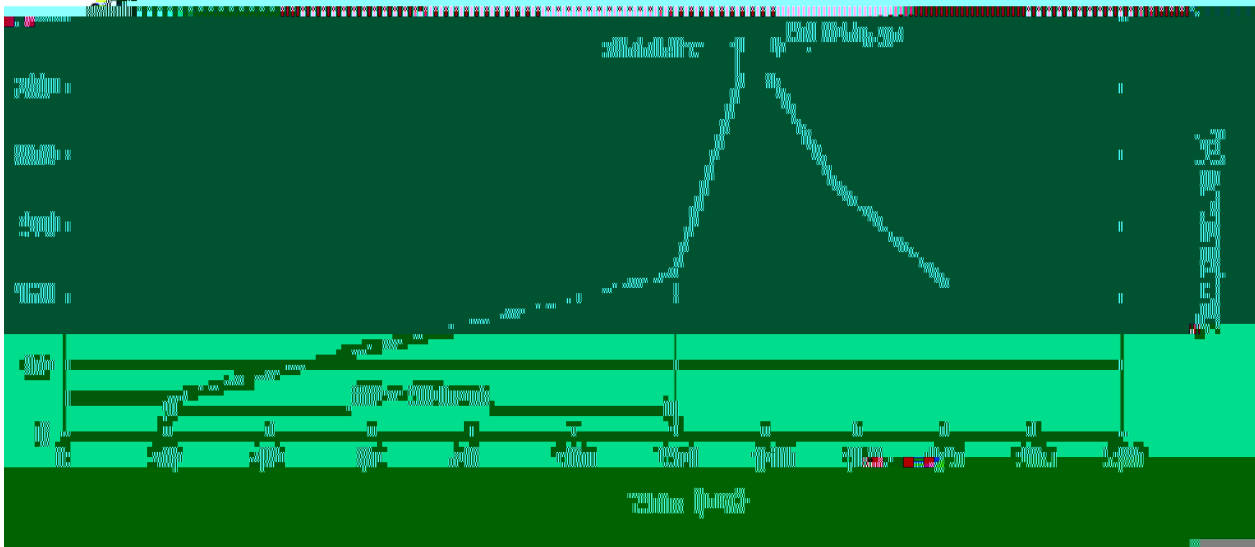
BR: Company Code.

C1473A: Product Type.

P: 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