

2SC1473(A)

Rev.E Mar.-2016

/ Descriptions

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

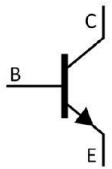
/ Features

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

/ Applications

General amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} 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

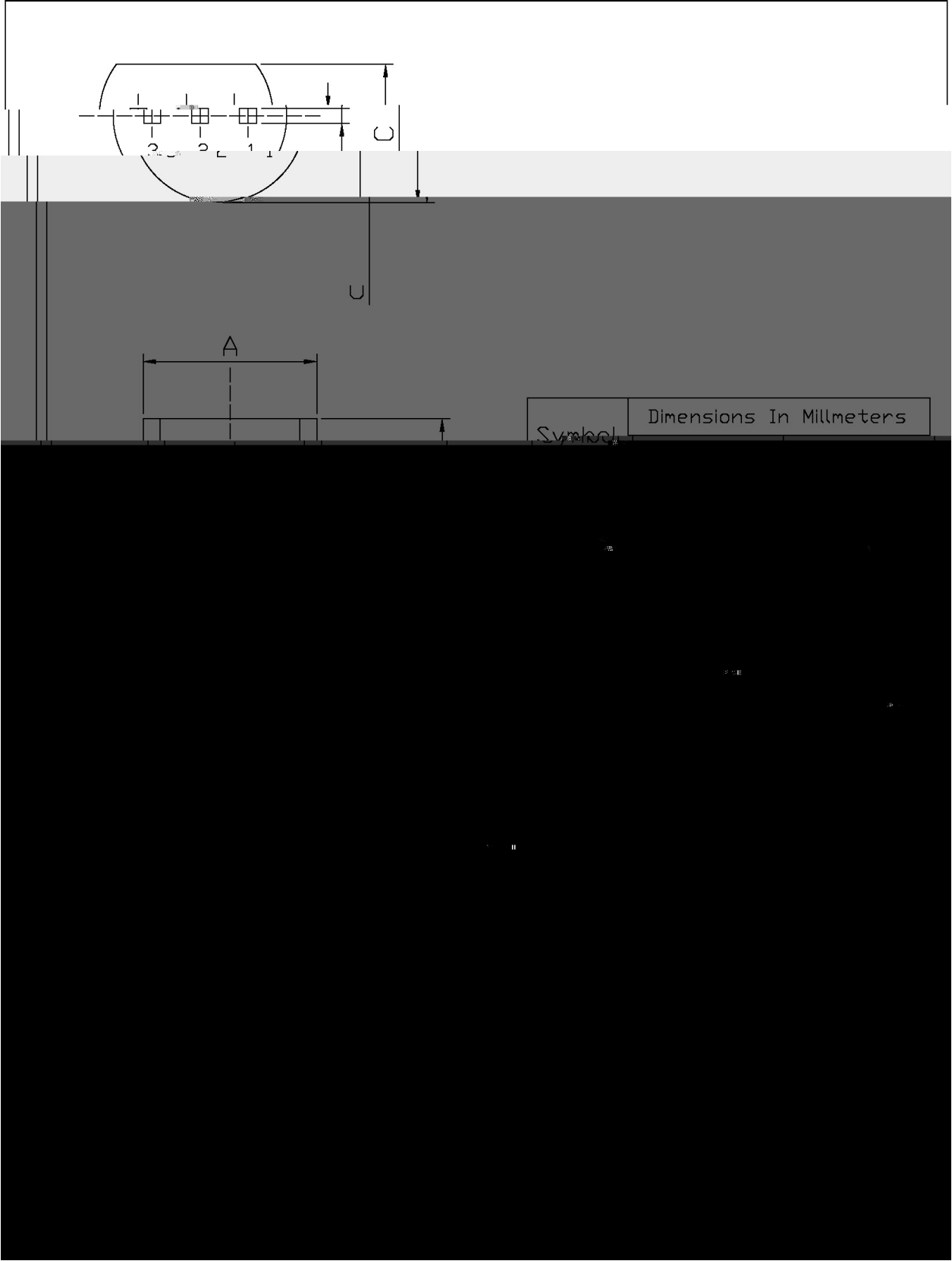
/ Electrical Characteristics(Ta=25)

Parameter	Symbol		Test Conditions	Min	Typ	Max	Unit
Collector to Breakdown Emitter Voltage	V_{CEO}	2SC1473	$I_C=100\mu A \quad I_B=0$	200			V
		2SC1473A		300			
Emitter to Base Breakdown Voltage	V_{EBO}		$I_E=1.0\mu A \quad I_C=0$	7.0			V
Collector Cut-Off Current	I_{CEO}		$V_{CE}=120V \quad I_B=0$			1.0	μA
DC Current Gain	h_{FE}		$V_{CE}=10V \quad I_C=5.0mA$	30		220	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$		$I_C=50mA \quad I_B=5.0mA$			1.5	V
Transition Frequency	f_T		$V_{CE}=10V \quad I_C=10mA$	50			MHz
Collector Output Capacitance	C_{ob}		$V_{CB}=10V \quad f=1.0MHz$			10	pF

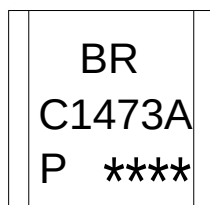
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

C1473A

P: h_{FE}

Note:

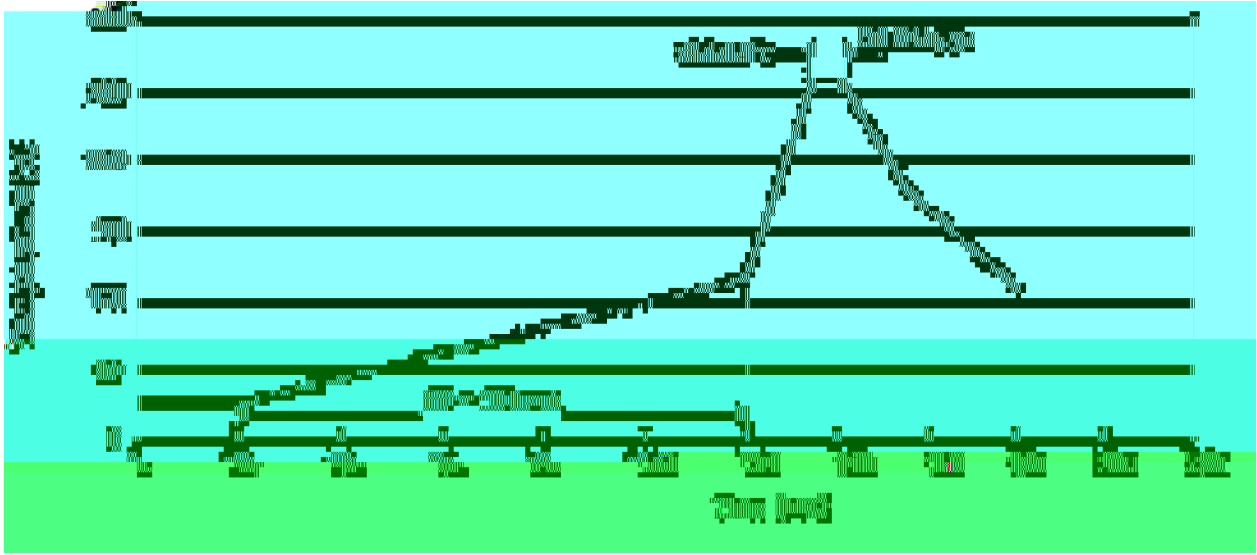
BR: Company Code.

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