

2SC1213(A)
Rev.E Mar.-2016

KF \$0) E GE ' Silicon NPN transistor in a TO-92 Plastic Package.

)J F 3 ; s ' .

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit	
Collector to Base Voltage	V _{CBO}	2SC1213	35	V
		2SC1213A	50	
Collector to Emitter Voltage	V _{CEO}	2SC1213	35	V
		2SC1213A	50	
Emitter to Base Voltage	V _{EBO}	4.0	V	
Collector Current - Continuous	I _C	500	mA	
Collector Power Dissipation	P _C	400	mW	
Junction Temperature	T _j	150		
Storage Temperature Range	T _{stg}	-55 150		

/ Electrical Characteristics(Ta=25)

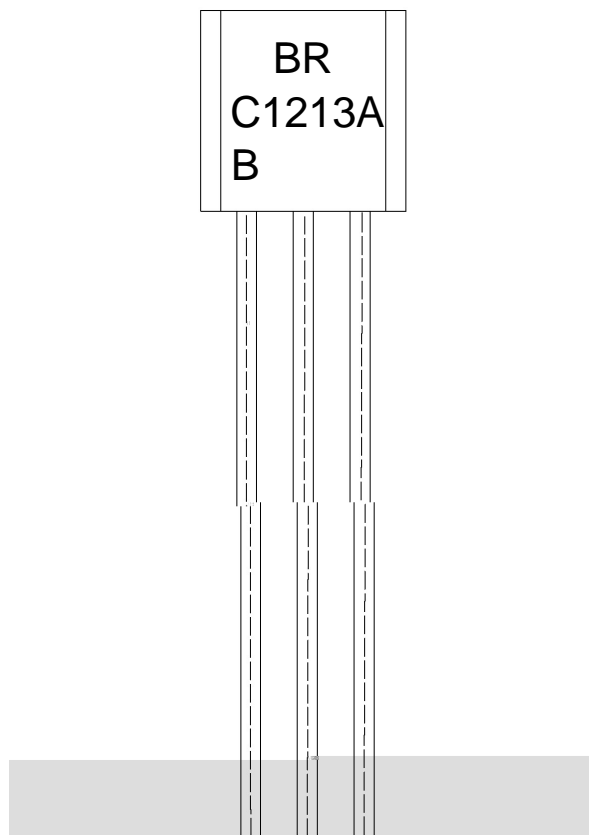
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V _{CBO}	I _C =10μA I _C =1.0mA	35			V
			50			
Collector to Emitter Breakdown Voltage	V _{CEO}	I _C =1.0mA I _B =0	35			V
			50			
Emitter to Base Breakdown Voltage	V _{EBO}	I _E =10μA I _C =0	4.0			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =20V I _E =0			0.5	μA
DC Current Gain	h _{FE(1)}	V _{CE} =3.0V I _C =10mA	60		320	
	h _{FE(2)}	V _{CE} =3.0V I _C =500mA	10			
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C =150mA I _B =15mA		0.2	0.6	V
Base to Emitter Voltage	V _{BE}	V _{CE} =3.0V I _C =10mA		0.64		V

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Rev.E Mar.-2016

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Rev.E Mar.-2016

/ Package Dimensions

/ Marking Instructions



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Note:

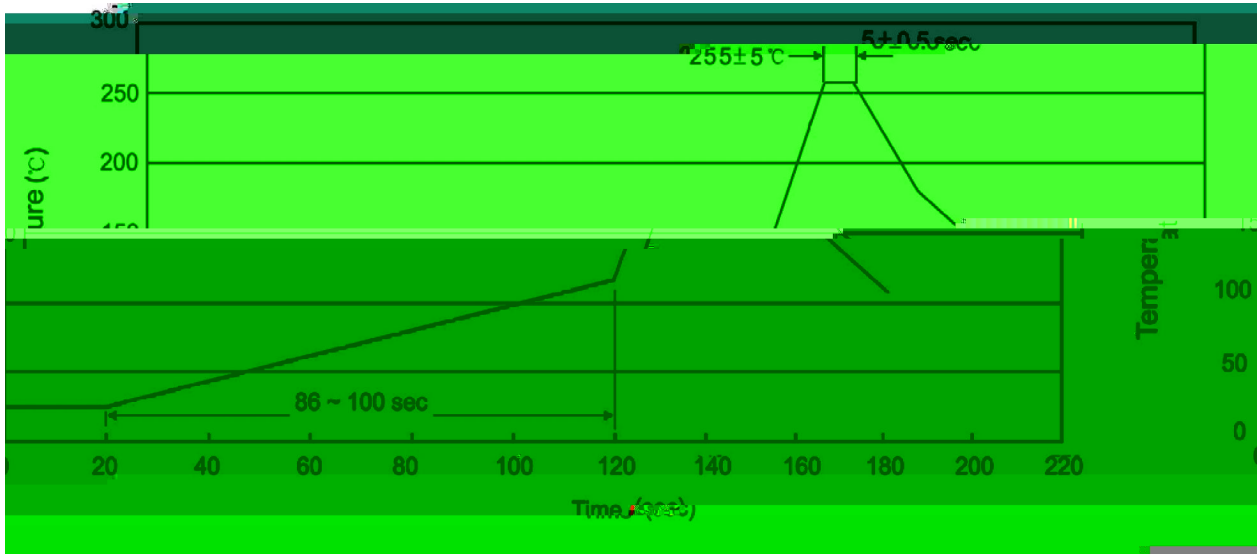
BR: Company Code.

C1213A: Product Type.

B: h_{FE} Classifications Symbol

****: Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

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|---|--------|-----|------------|--------|---|
| 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 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