

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

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

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/ 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)

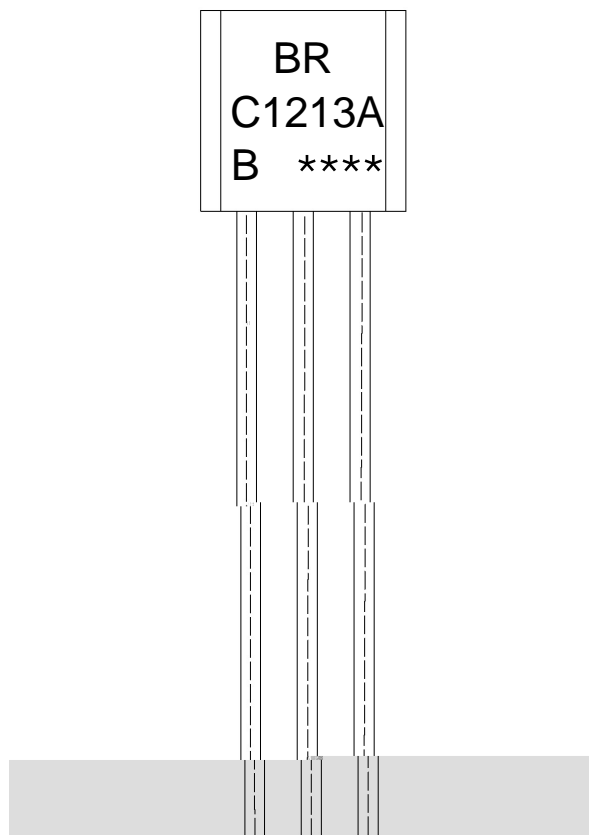
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V _{CBO}	I _C =10 A I _C =1.0mA	35			V
			50			
Collector to Emitter Breakdown Voltage	V _{CEO}	I _C =1.0mA I _B =0	35			V
			50			
Emitter to Base Breakdown Voltage	V _{EBO}	I _E =10 A I _C =0	4.0			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =20V I _E =0			0.5	A
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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/ 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)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带层/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235, 大箱 547×407×268

/ Notices