

/ Absolute Maximum Ratings(Ta=25)

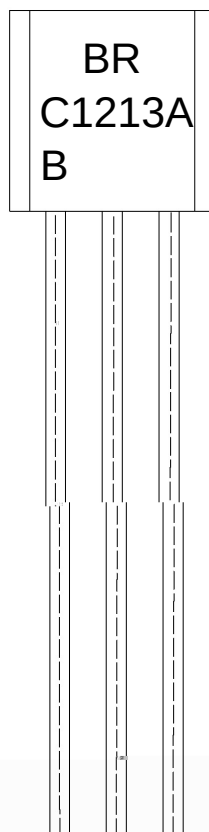
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	2SC1213	V
		2SC1213A	
Collector to Emitter Voltage	V_{CEO}	2SC1213	V
		2SC1213A	
Emitter to Base Voltage	V_{EBO}	4.0	V
Collector Current - Continuous	I_C	500	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	
Storage 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}	$I_C=10\mu A$ $I_C=1.0mA$	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}	$I_E=10\mu A$ $I_C=0$	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

/ Package Dimensions

/ Marking Instructions



б " X

EU: ㄟ 3 ㄴ ㄱ

F4546D X ㄟ 3 ㄴ ㄱ

E: ㄟ k_{IH} ' 6 ㄱ

---- X ㄟ 1 f ㄴ ㄱ 1 ㄱ 1 f ㄴ ㄱ ㄱ

Note:

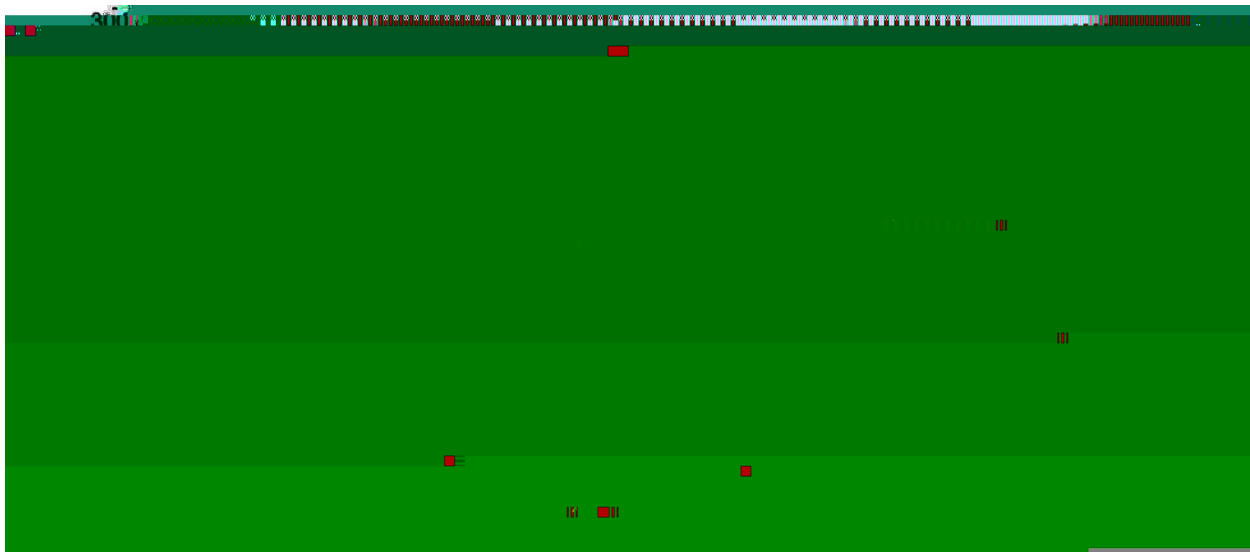
BR: Company Code.

C1213A: Product Type.

B: h_{FE} Classifications Symbol

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

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



б " X

1. 1. 25~150 °C, Time: 60~90sec;
2. 2. 255 °C, Duration: 5~0.5sec;
3. 3. Cooling Speed: 2~10 °C/sec.

Note:

1. Preheating: 25~150 °C, Time: 60~90sec.
2. Peak Temp.: 255 °C, Duration: 5~0.5sec.
3. Cooling Speed: 2~10 °C/sec.

/ Resistance to Soldering Heat Test Conditions

□ °C 270 ± 5 °C 10 ± 1 sec. Temp: 270 ± 5 Time: 10 ± 1 sec

/ Packaging SPEC.

“Q” γ E / 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

“V” γ E / 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