WR0459 Ṃ Ṃ Ḅ QSQ Æ Ṁ ч s ‖ ㄱ Silicon NPN transistor in a TO-126 Plastic Package.

ⷯ ề ḭ ' ᡆ ı ᡗ 5VD4<63V Ӣ ´
High f_T, complementary pair with 2SA1930S.

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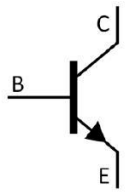
General power and driver stage amplifier applications.



PIN1 χ Emitter PIN 2 χ Collector PIN 3 χ Base

/ h_{FE} Classifications & Marking

ð м ㄱ ب ˝ See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

v ̈Ω Parameter	ϒ N Symbol	̈Ω Ö Rating	D Ɥ Unit
Collector to Base Voltage	V_{CBO}	180	V
Collector to Emitter Voltage	V_{CEO}	180	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	2.0	A
Base Current	I_B	1.0	A
Collector Power Dissipation	P_C	1.5	W
Collector Power Dissipation	P_C(Tc=25)	20	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

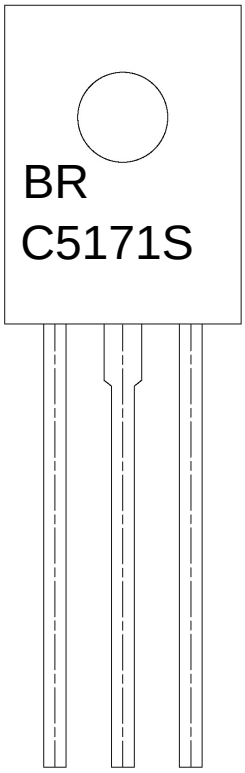
/ Electrical Characteristics(Ta=25)

v ̈Ω Parameter	ϒ N Symbol	⅄ ː ϯ ϒ Test Conditions	ω ṇ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ɥ Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=10mA I_B=0	180			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=180V I_E=0			5.0	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			5.0	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=5.0V I_C=100mA	100		320	
	$h_{FE(2)}$	V_{CE}=5.0V I_C=1.0A	50			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=1.0A I_B=100mA		0.16	1.0	V
Base to Emitter Saturation Voltage	V_{BE}	V_{CE}=5.0V I_C=1.0A		0.68	1.5	V
Transition Frequency	f_T	V_{CE}=5.0V I_C=300mA		200		MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V I_E=0 f=1.0MHz		16		pF

2SC5171S

Rev.F Mar.-2016

/ Marking Instructions

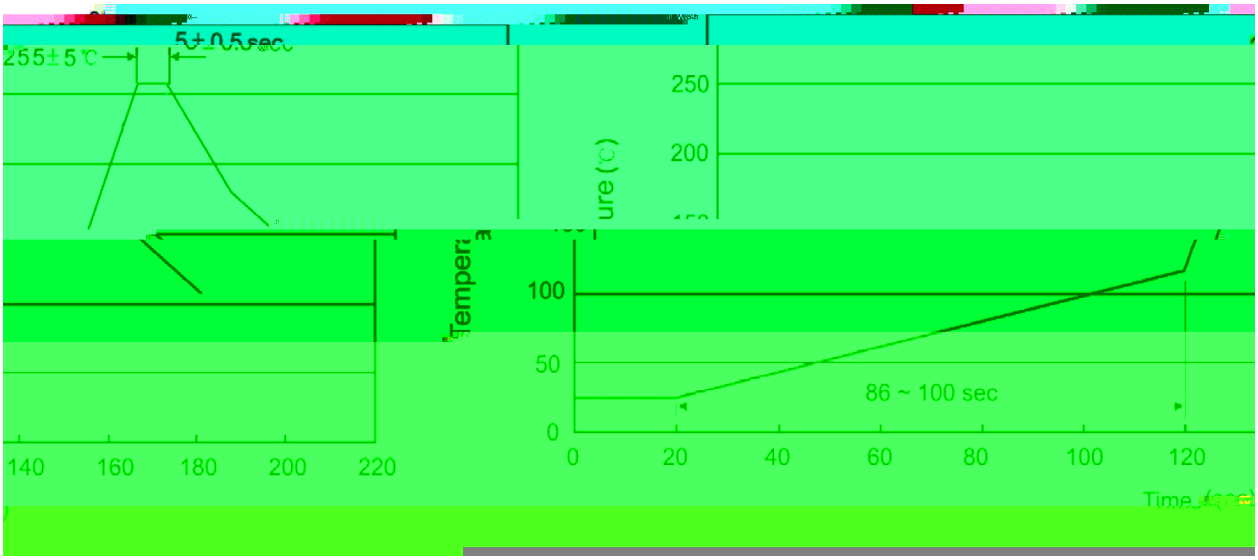


BR	
F84 : 4V	

Note:

BR:	Company Code
C5171S:	Product Type.
****:	Lot No. Code, code change with Lot No.

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



ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ł ı ˋH ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 255 ° 5 ł ı ˋH ڑ ˋY ﾊ ㎛ 5 ° 0.5sec;

3 ì ˙ ﾘ ˛ ↄ ෯ ỷ ㎛ 2 Ḱ 10 ł /sec.

Note:

1.Preheating:25~150 ł , Time:60~90sec.

2.Peak Temp.:255 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ł	ˋH ڑ χ 10 ° 1 sec.	Temp.:270±5	Time:10±1 sec

/ Packaging SPEC.

ˈQ ţ ﾘ Ł / BULK

Package Type	Units	Dimension	(unit mm^3)