

BR2SB1261Q

Rev.A Apr.-2023


蓝箭电子
 BLUE ROCKET ELECTRONICS
DATA SHEET

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-7.0	V
Collector Current - Continuous	I_C	-3.0	A
Collector Power Dissipation*	$*P_C$	2.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

* 7.5×7.5×0.7mm

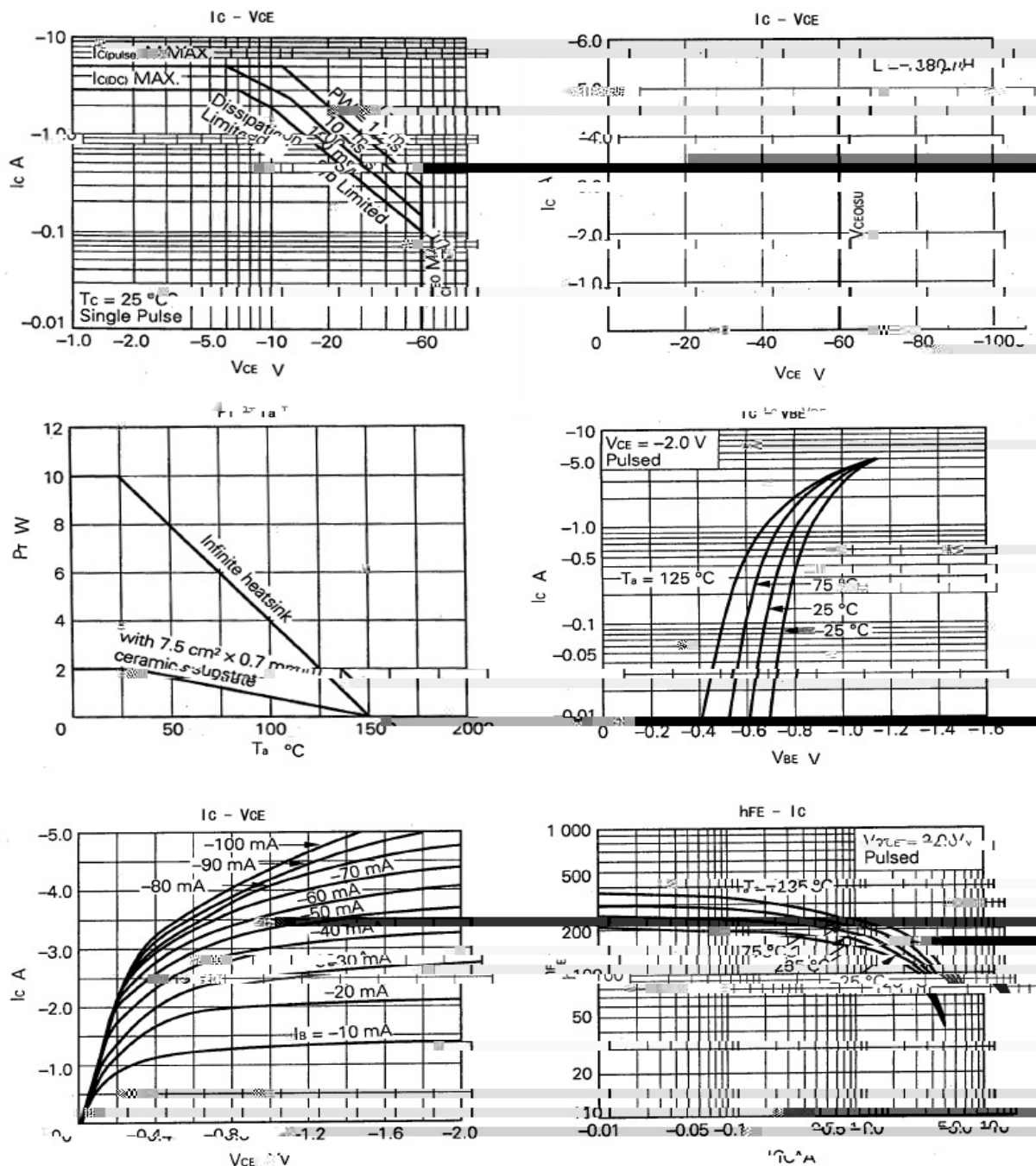
*When mounted on a 7.5×7.5×0.7mm ceramic board.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C = -0.1mA$ $I_E = 0$	-60			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C = -1.0mA$ $I_B = 0$	-60			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E = -0.1mA$ $I_C = 0$	-7.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -60V$ $I_E = 0$			-10	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = -7.0V$ $I_C = 0$			-10	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -2.0V$ $I_C = -600mA$	100		400	
	$h_{FE(2)}$	$V_{CE} = -2.0V$ $I_C = -200mA$	60			
	$h_{FE(3)}$	$V_{CE} = -2.0V$ $I_C = -2.0A$	50			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -1.5A$ $I_B = -150mA$			-0.3	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -1.5A$ $I_B = -150mA$			-1.2	V
Transition Frequency	f_T	$V_{CE} = -5.0V$ $I_C = -1.5A$		50		MHz

Collector output capacitance

 C_{ob}
 $V_{CB} \text{ n c } 7 . f 4 5 . 1 2 8 \quad 6 0 5 . 3 9 \quad T c \quad (C B) T 2 . T c$

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Rev.A AprAD023 A95.9(T)51.32(A 626(S2(A.9(H)626(EET))TJ/T64 1 Tf1097564 0 0 10.98528.41994 773.540

() / Whp shrdwxrh Prriioh irr IU Uhiow Vroghriqj+Pe-Frhh,

Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 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

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box