

BR2SB1261Q

Rev.A Apr.-2023



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	

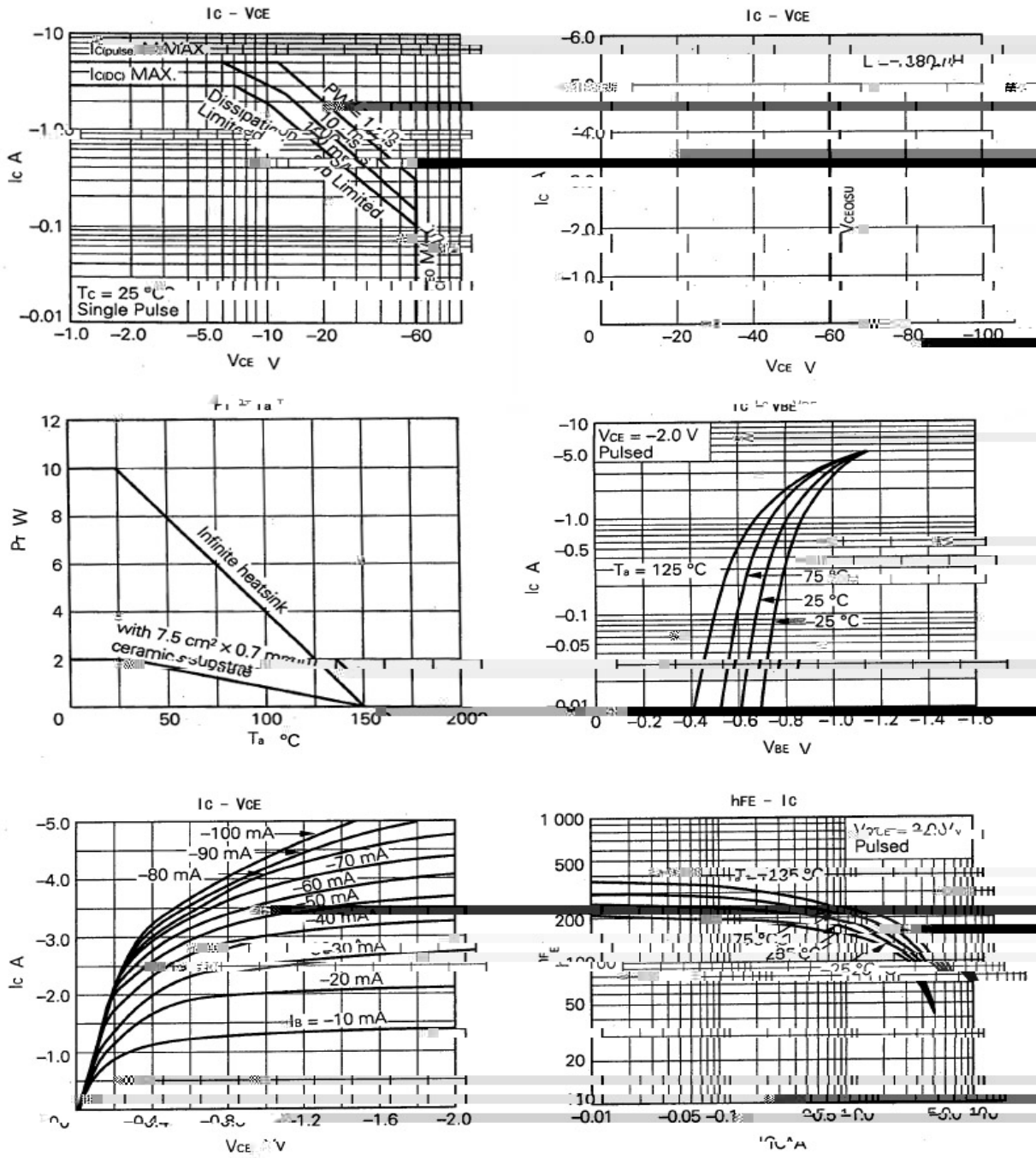
* 7.5×7.5×0.7mm

*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} $V_{CBa} n c 7 . f 4 5 . 1 2 8 6 0 5 . 3 9 T c (C B) T 2 . T c$

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() / Resistance to Soldering Heat Test Conditions

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	Units/Inner Box	Units/Outer Box	Units/Inner Box	Units/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box	
TO-252	2,e/-24	Tc340	67ring	67.66(2)	-4.4(BR(5,040	67ring	2200BR(6)	-4.9ef1(30,40	67r0.67rin	88c0 1308Fj/TT12