



F	2017-4				
G	2020-11-11	1			
A	2022-4-23	all	BR/Q AEC-Q101 , H Q 245±5°C 5±0.5sec 255±5°C 0.5sec 5±		

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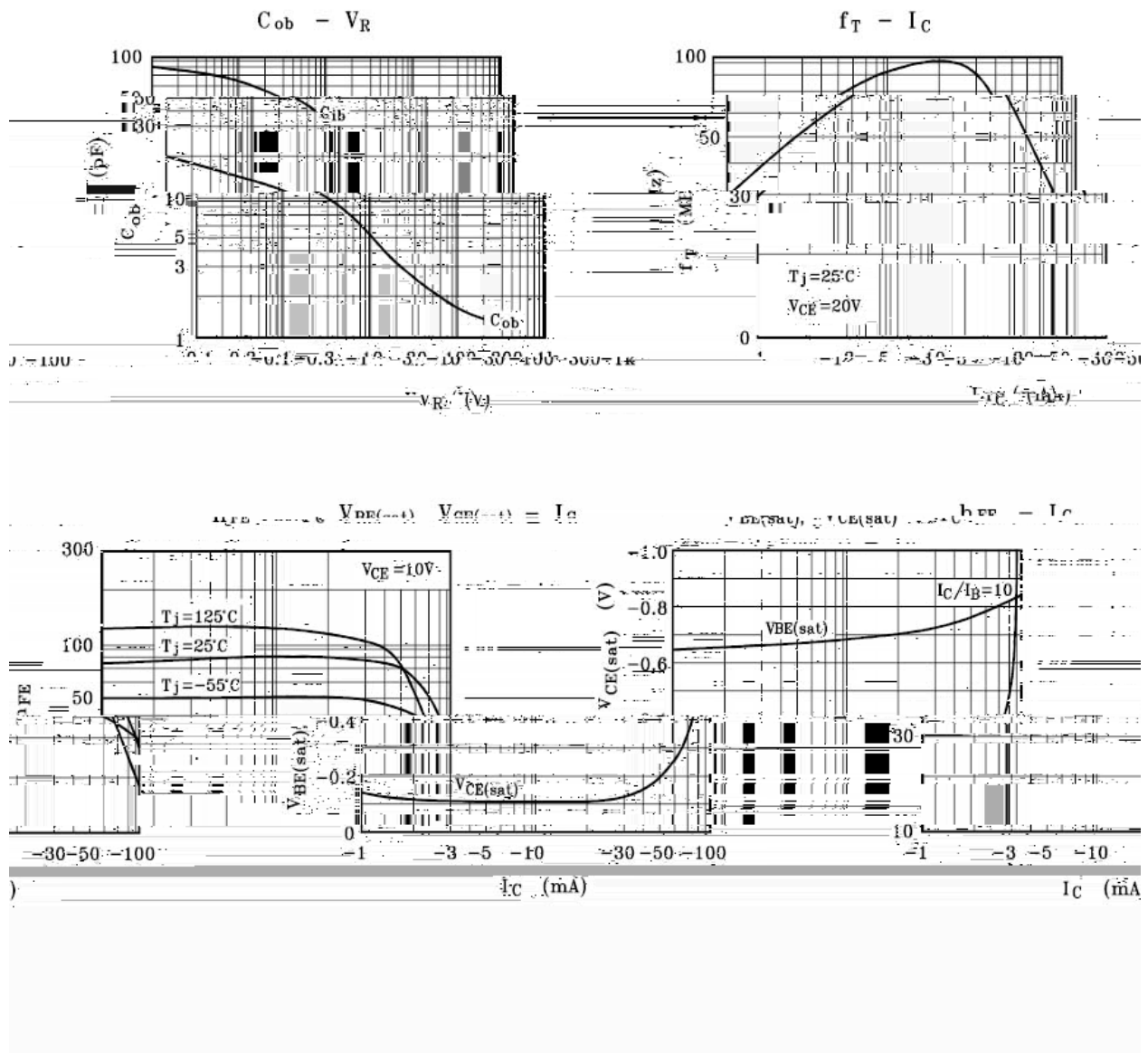


Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-300	V
Collector to Emitter Voltage	V_{CEO}	-300	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	350	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C = -100\mu A$ $I_E = 0$	-300			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C = -1.0mA$ $I_B = 0$	-300			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E = -100\mu A$ $I_C = 0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -200V$ $I_E = 0$			-0.25	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{BE} = -3.0V$ $I_C = 0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -10V$ $I_C = -10mA$	40			
	$h_{FE(2)}$	$V_{CE} = -10V$ $I_C = -30mA$	25			
	$h_{FE(3)}$	$V_{CE} = -10V$ $I_C = -1.0mA$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -20mA$ $I_B = -2.0mA$			-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -20mA$ $I_B = -2.0mA$			-0.9	V
Transition Frequency	f_T	$I_C = -10mA$ $f = 100MHz$ $V_{CE} = -20V$	50			MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -20V$ $f = 1.0MHz$ $I_E = 0$			6.0	pF



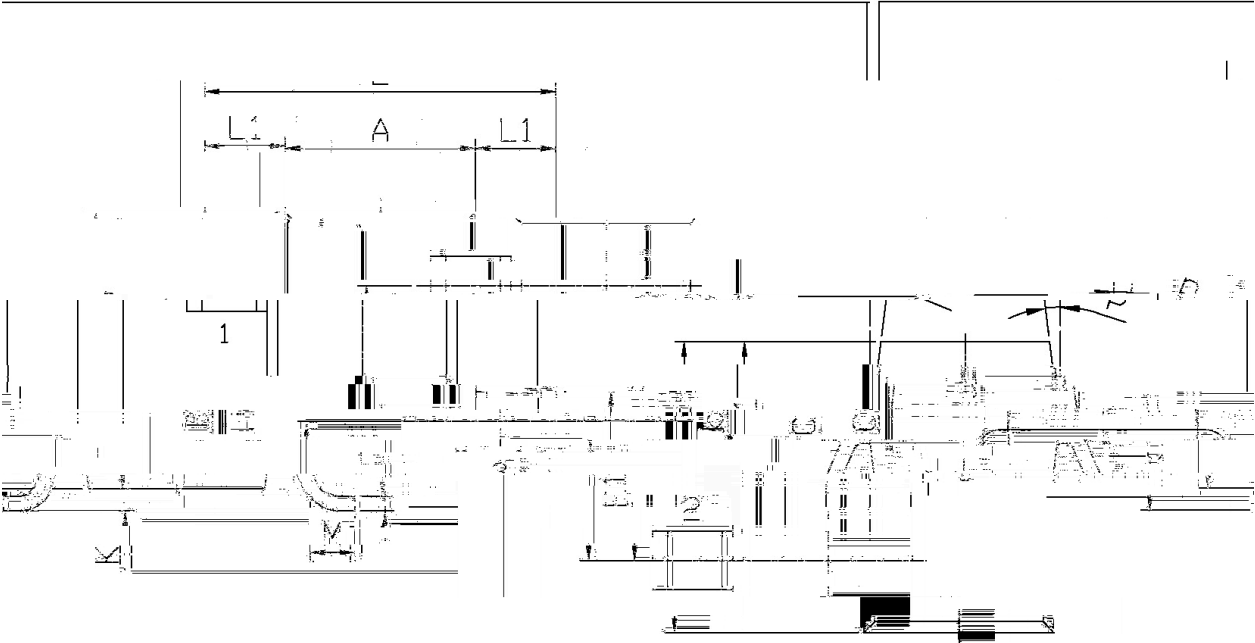
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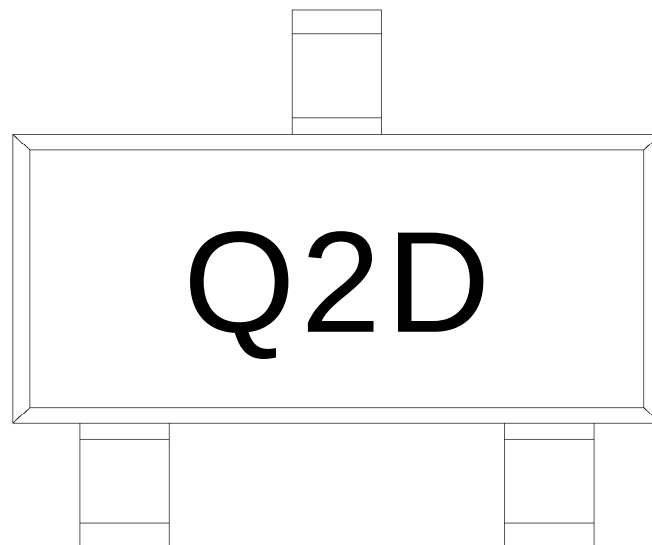


SYMBOL

单位



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	0.45	0.65	C	0.91	1.20
B	1.50	2.70	D	0.05	0.08
E	1.70	2.10	F	0.20	0.25
E1	0.85	1.05	G	0.20	0.25
b	0.35	0.55	H	0.20	0.25



Q

2D

Note:

Q: Automobile halogen-free product Code

2D: Product Type Code.



Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1

150 200

60 120sec;

1.Preheating:150~200°C, Time:60~120sec.
- 2

255±5

5±0.5sec;

2.Peak Temp.:255±5°C, Duration:5±0.5sec.
- 3

2

10°C/sec.

3. Cooling Speed: 2~10°C/sec.

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ REEL

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