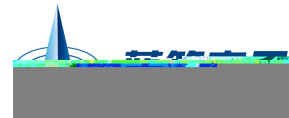


/ Revised record

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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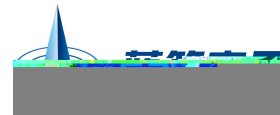


/ Absolute Maximum Ratings(Ta=25)

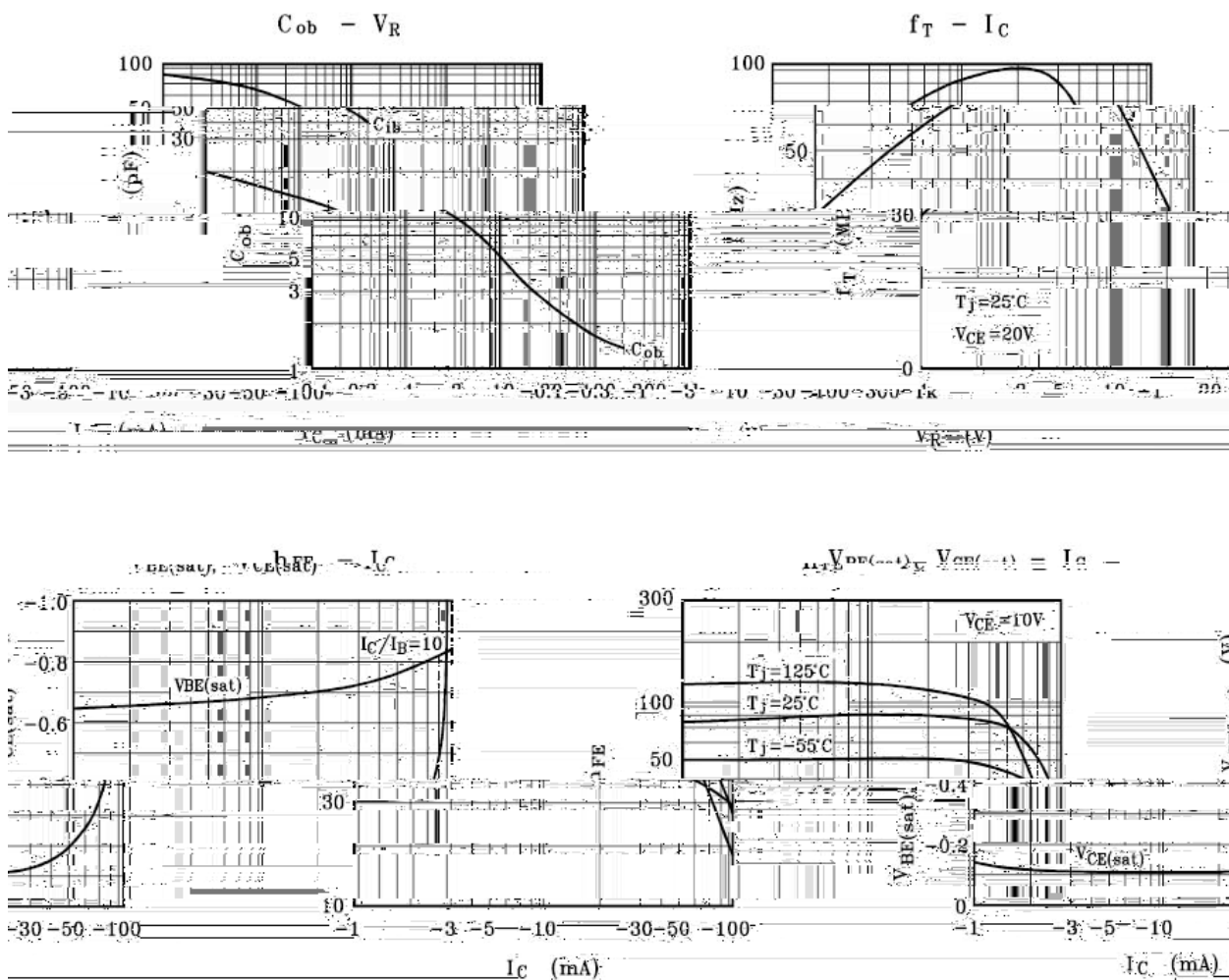
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-300	V
Collector to Emitter Voltage	V_{CEO}	-300	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	350	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}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

/ Electrical Characteristics(Ta=25)

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



/ Electrical Characteristic Curve

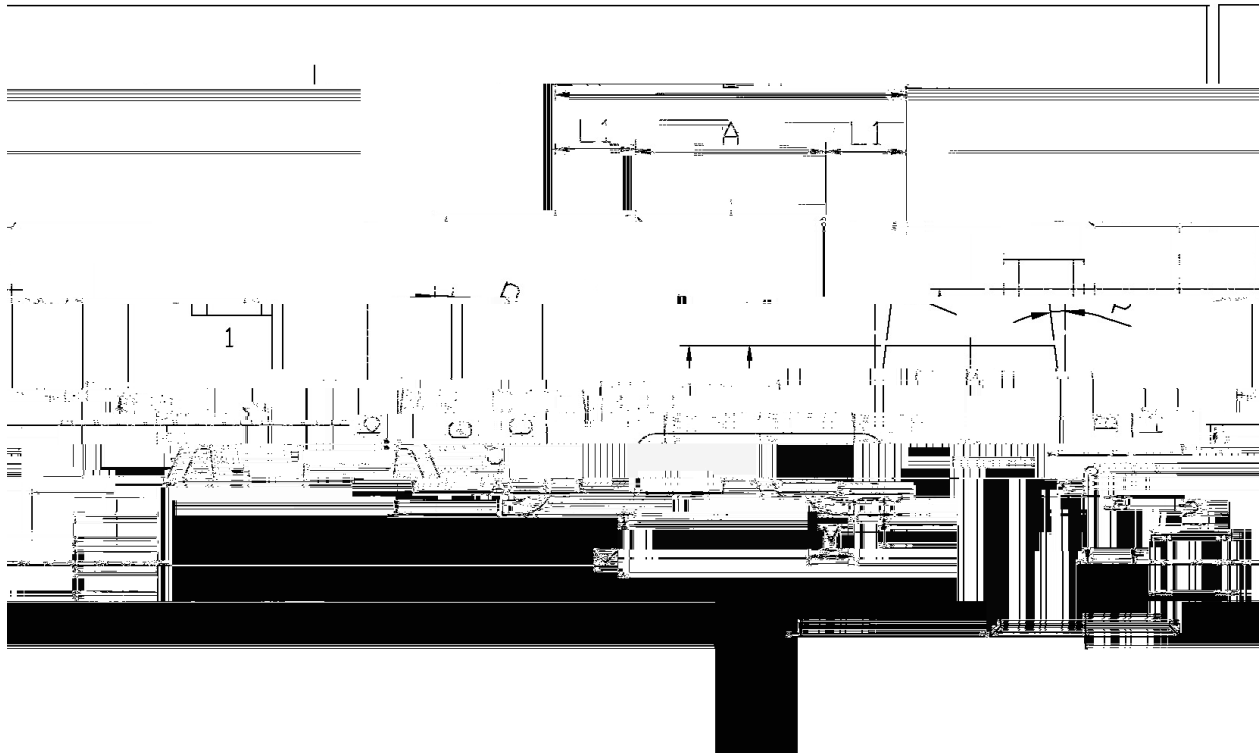




/ Package Dimensions

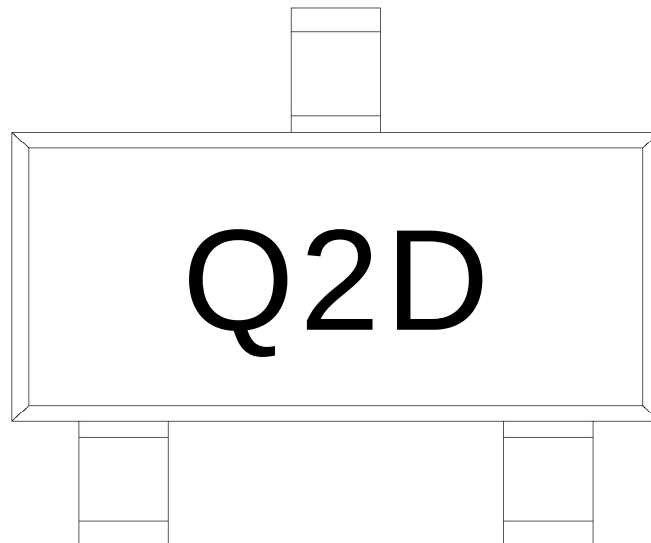
UNIT: mm

单位: mm



Dimensions	Symbol	Min	Max	Symbol	Min	Max
Pin Pitch	P	2.2	2.7	Pin 1 to Pin 20	13.0	14.0
Pin 1 to Pin 20	L1	0.45	0.65	Pin 1 to Pin 20	0.91	1.0
Pin 1 to Pin 20	A	1.15	1.50	Pin 1 to Pin 20	0.35	0.55
Pin 1 to Pin 20	B	2.70	3.10	Pin 1 to Pin 20	0	0
Pin 1 to Pin 20	E	1.70	2.10	Pin 1 to Pin 20	0	0
Pin 1 to Pin 20	E1	0.85	1.05	Pin 1 to Pin 20	0	0
Pin 1 to Pin 20	b	0.35	0.55	Pin 1 to Pin 20	0	0

/ Marking Instructions



Q

2D

Note:

Q: Automobile halogen-free product Code

2D: Product Type Code.

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