

Absolute Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Collector-Emitter Voltage (V _{BE} = 0V)	V _{CES}	700	V
Collector-Emitter Voltage	V _{CEO}	450	V
Emitter-Base Voltage	V _{EBO}	9	V
Continuous Collector Current	I _C	0.8	A
Peak Pulse Collector Current	I _{CM}	1.6	A
Continuous Base Current	I _B	0.4	A
Peak Pulse Base Current	I _{BM}	0.8	A

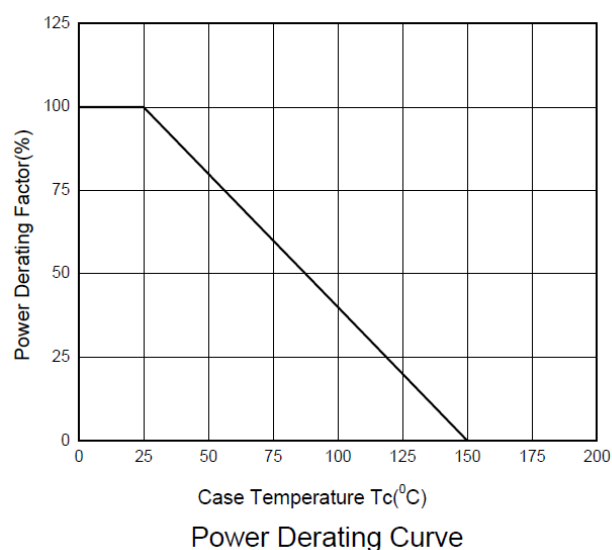
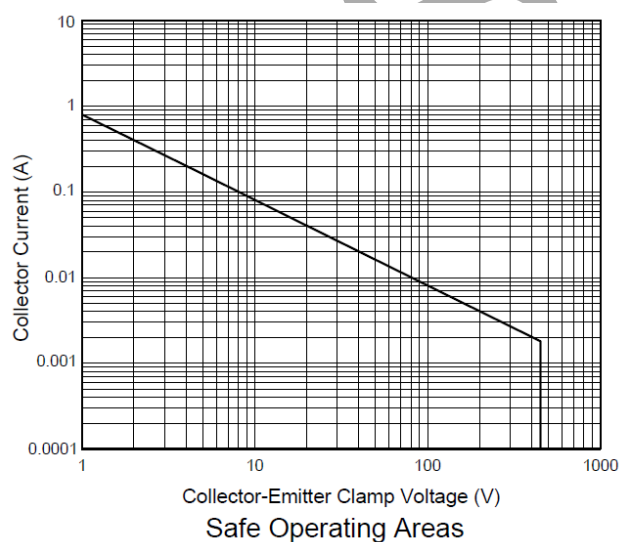
Thermal Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Power Dissipation	P _D	0.8	W
Thermal Resistance, Junction to Ambient Air	R _{θJA}	156.25	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

ESD Ratings (Note 5)

Characteristic	Symbol	Value	Unit	JEDEC Class
Electrostatic Discharge - Human Body Model	ESD HBM	≥ 8,000	V	3B
Electrostatic Discharge - Machine Model	ESD MM	≥ 400	V	C

Note: 5. Refer to JEDEC specification JESD22-A114 and JESD22-A115.

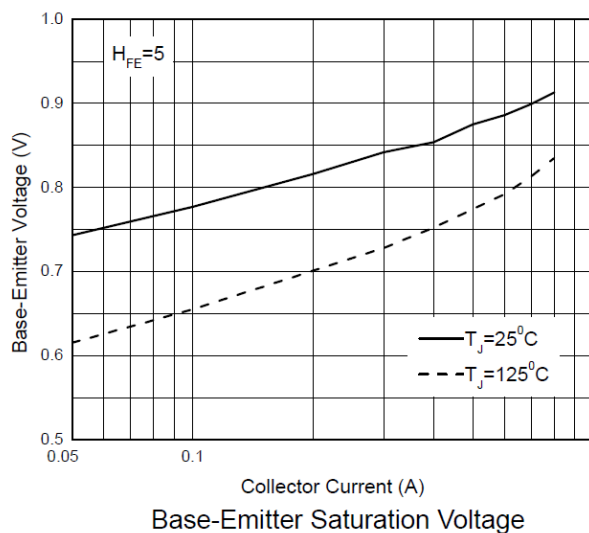
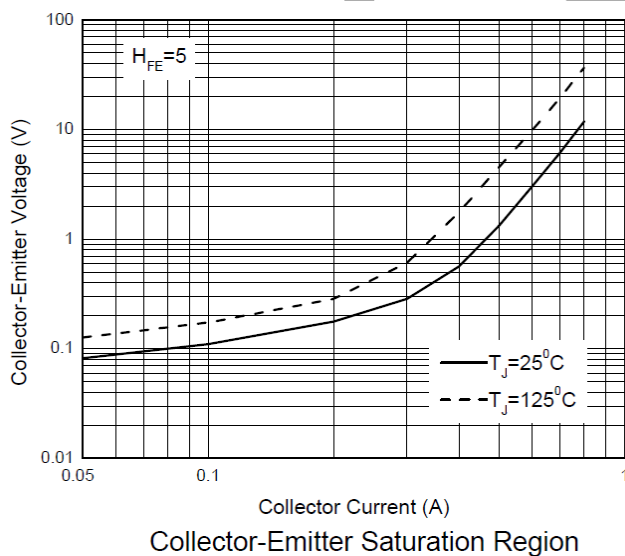
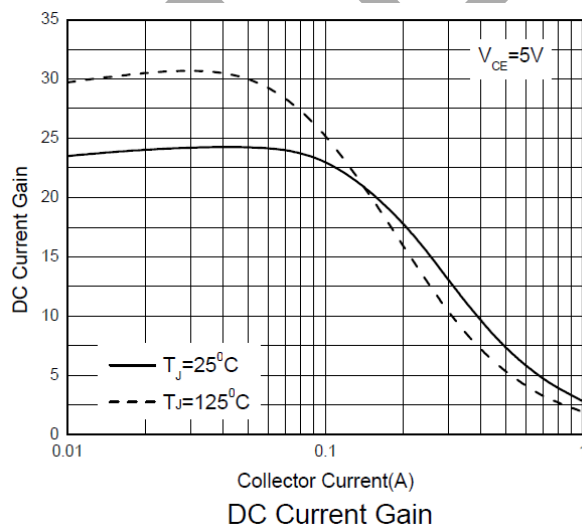
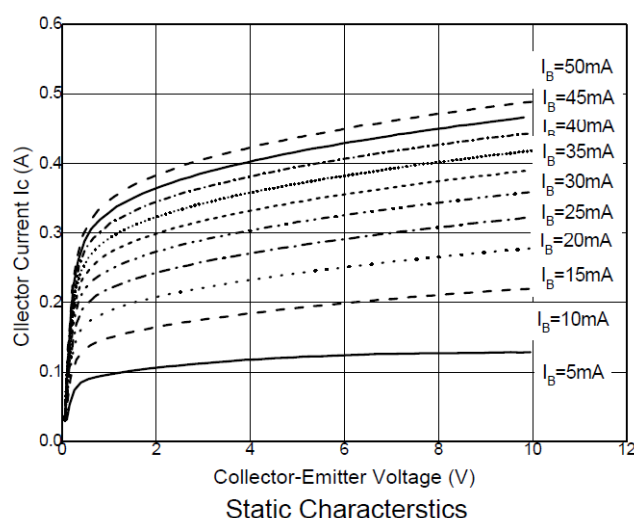
Safe Operating Area and Derating Information (@T_A = +25°C, unless otherwise specified.)


Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Collector-Emitter Voltage	BV _{CES}	700	—	—	V	I _C = 100μA, V _{BE} = 0V
Collector-Emitter Breakdown Voltage	BV _{CEO}	450	—	—	V	I _C = 100μA
Emitter-Base Breakdown Voltage	BV _{EBO}	9	—	—	V	I _E = 100μA
Collector Cutoff Current	I _{CEV}	—	—	10	μA	V _{CE} = 700V, V _{BE} = -1.5V
DC current transfer Static ratio (Note 6)	h _{FE}	15	23	40	—	I _C = 100mA, V _{CE} = 10V
		6	15	30	—	I _C = 300mA, V _{CE} = 10V
Collector-Emitter Saturation Voltage (Note 6)	V _{CE(sat)}	—	—	0.5	V	I _C = 200mA, I _B = 40mA

Note: 6. Measured under pulsed conditions. Pulse width ≤ 300μs. Duty cycle ≤ 2%.

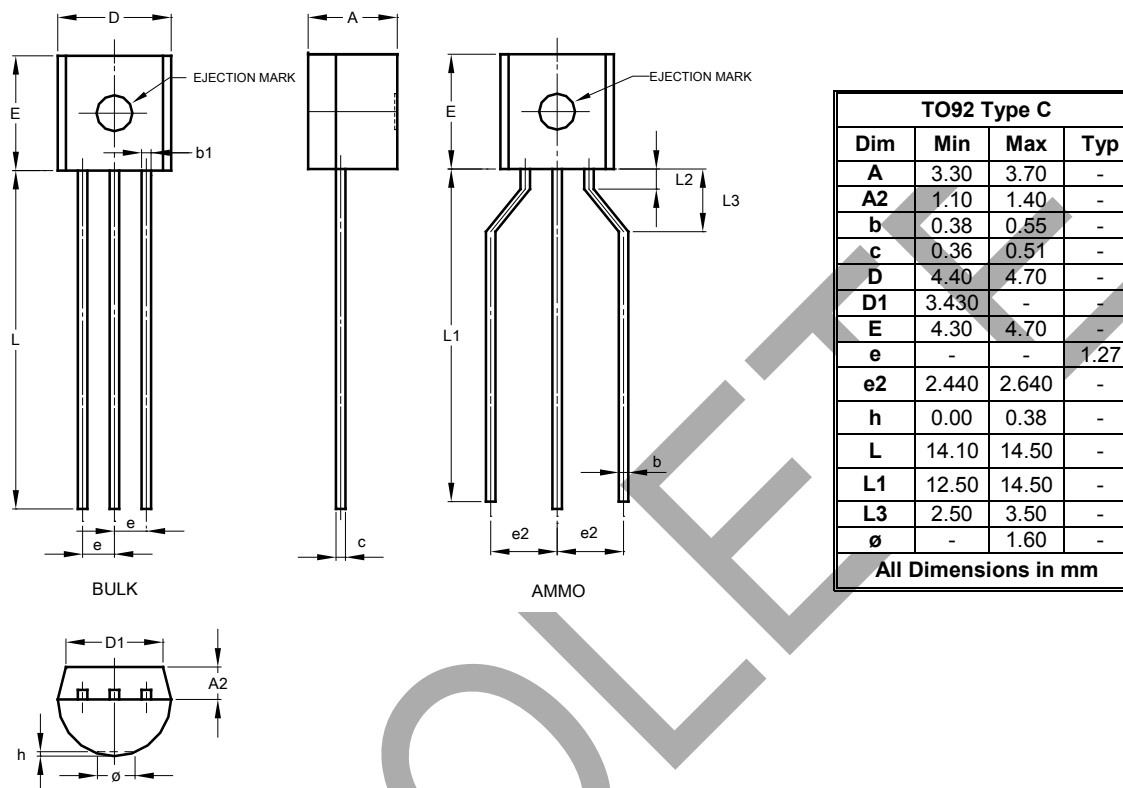
Typical Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)



Package Outline Dimensions

Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.

T092 Type C



Note: For high voltage applications, the appropriate industry sector guidelines should be considered with regards to voltage spacing between terminals.

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