

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

Characteristic	Symbol	Value	Unit
Collector – Base Voltage	V _{CBO}	-80	V
Collector – Emitter Voltage	V _{CEO}	-65	V
Emitter – Base Voltage	V _{EBO}	-5.0	V
Collector Current	I _C	-100	mA
Peak Collector Current	I _{CM}	-200	mA
Peak Emitter Current	I _{EM}	-200	mA

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

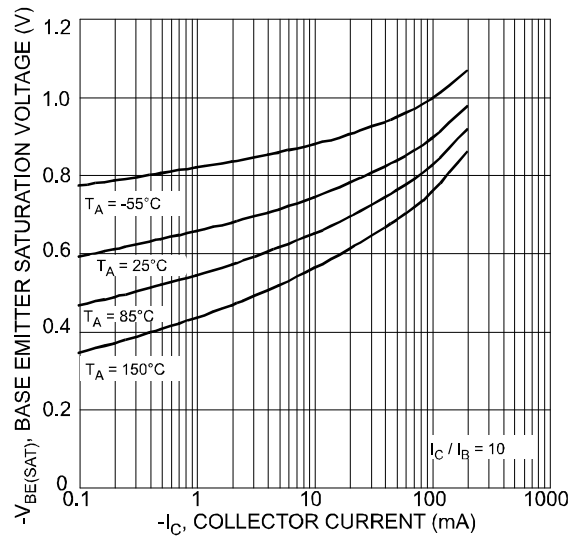
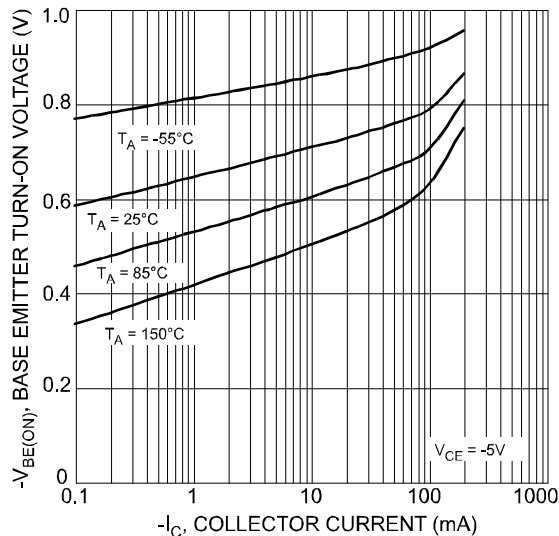
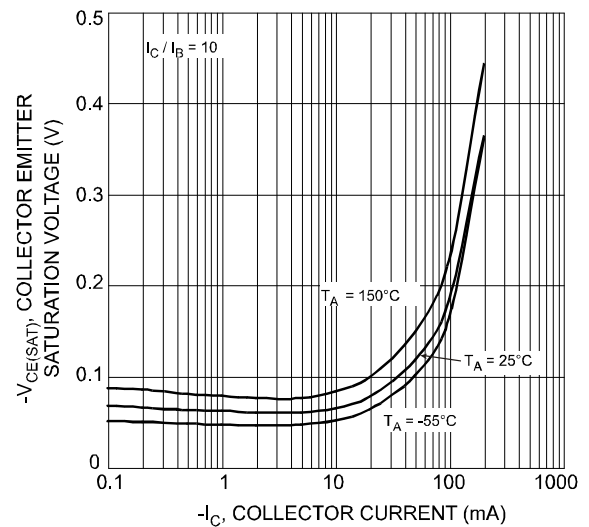
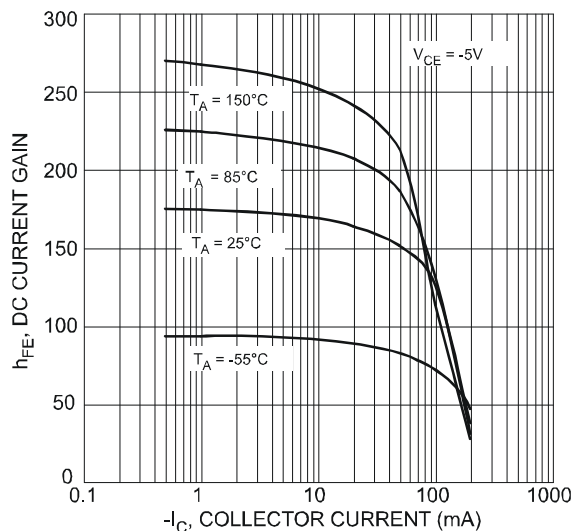
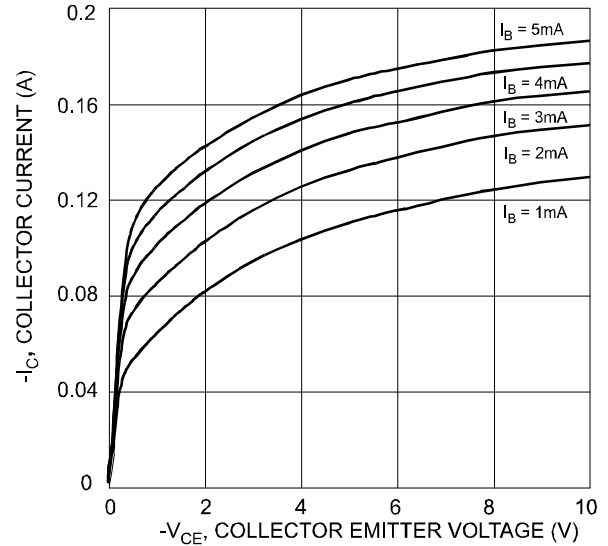
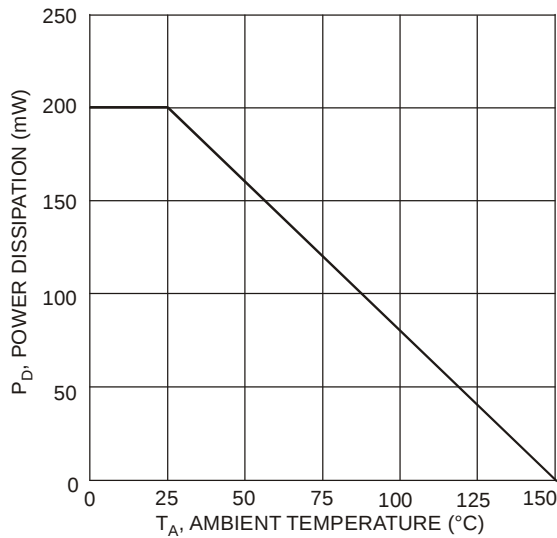
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P _D	200	mW
Thermal Resistance, Junction to Ambient Air (Note 6)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics (Note 7) (@T_A = +25°C unless otherwise specified.)

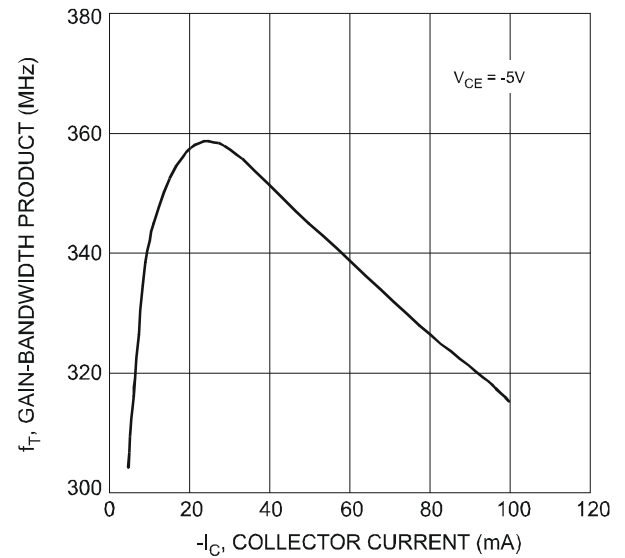
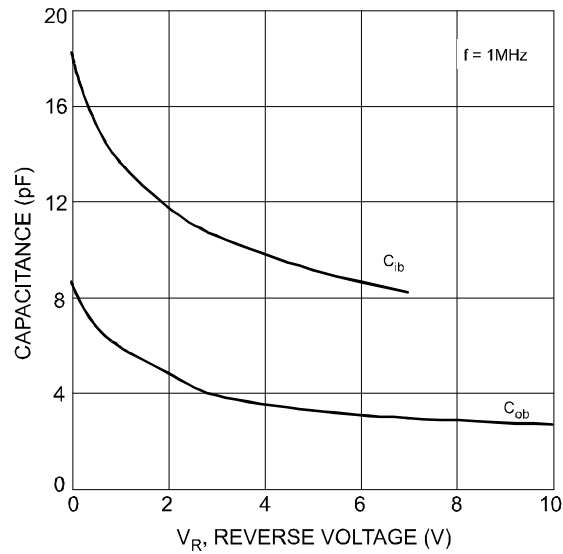
Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Collector – Base Breakdown Voltage	BV _{CBO}	-80	—	—	V	I _C = 10μA
Collector – Emitter Breakdown Voltage	BV _{CEO}	-65	—	—	V	I _C = 10mA
Emitter – Base Breakdown Voltage	BV _{EBO}	-5	—	—	V	I _E = 1μA
DC Current Gain	h _{FE}	125	180	250	—	V _{CE} = -5.0V, I _C = -2.0mA
Collector – Emitter Saturation Voltage	V _{CE(SAT)}	—	-75 -250	-300 -650	mV	I _C = -10mA, I _B = -0.5mA I _C = -100mA, I _B = -5.0mA
Base – Emitter Saturation Voltage	V _{BE(SAT)}	—	-700 -850	—	mV	I _C = -10mA, I _B = -0.5mA I _C = -100mA, I _B = -5.0mA
Base – Emitter Voltage	V _{BE(ON)}	-600	-650	-750 -820	mV	V _{CE} = -5.0V, I _C = -2.0mA V _{CE} = -5.0V, I _C = -10mA
Collector – Cutoff Current	I _{CES}	—	—	-15	nA	V _{CE} = -80V
	I _{CBO}	—	—	-15	nA	V _{CB} = -30V
	I _{CBO}	—	—	-4.0	μA	V _{CB} = -30V, T _A = +150°C
Gain Bandwidth Product	f _T	100	—	—	MHz	V _{CE} = -5.0V, I _C = -10mA, f = 100MHz
Collector – Base Capacitance	C _{CB}	—	3	—	pF	V _{CB} = -10V, f = 1.0MHz

- Notes:
- For the device mounted on minimum recommended pad layout FR4 PCB with high coverage of single sided 1oz copper, in still air conditions; the device is measured when operating in a steady-state condition.
 - Short duration pulse test used to minimize self-heating effect.

Typical Electrical Characteristics (@ $T_A = +25^\circ\text{C}$ unless otherwise specified.)



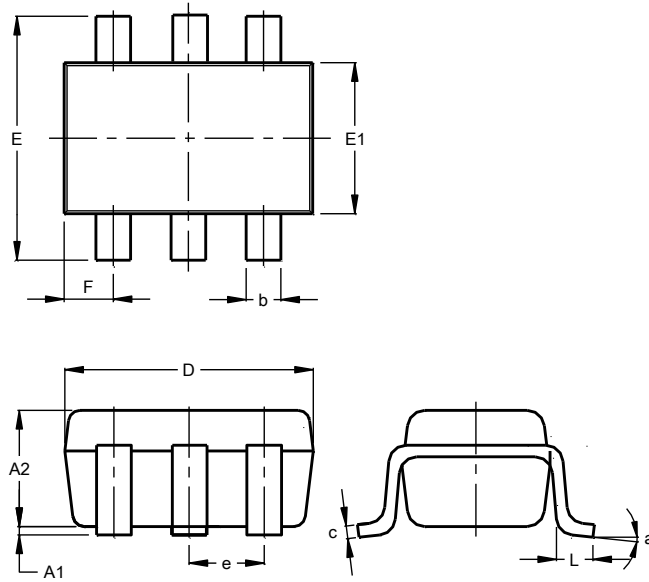
Typical Electrical Characteristics (Continued) (@T_A = +25°C unless otherwise specified.)



Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT363

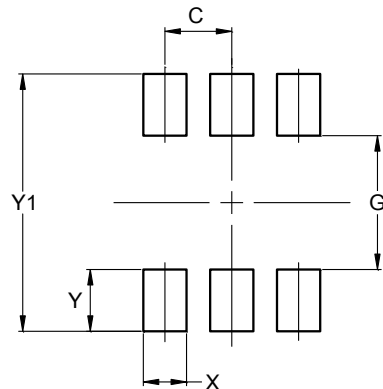


SOT363			
Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	1.00
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT363



Dimensions	Value (in mm)
C	0.650
G	1.300
X	0.420
Y	0.600
Y1	2.500

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