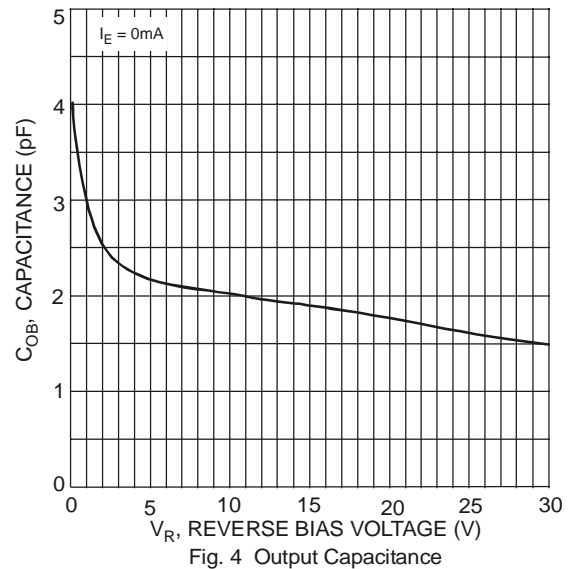
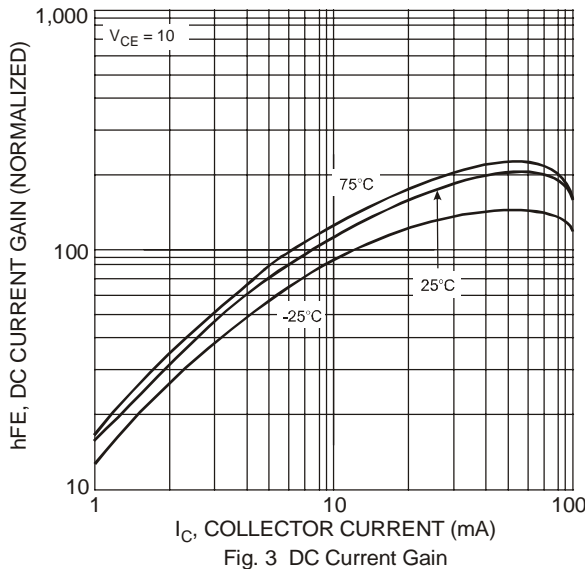
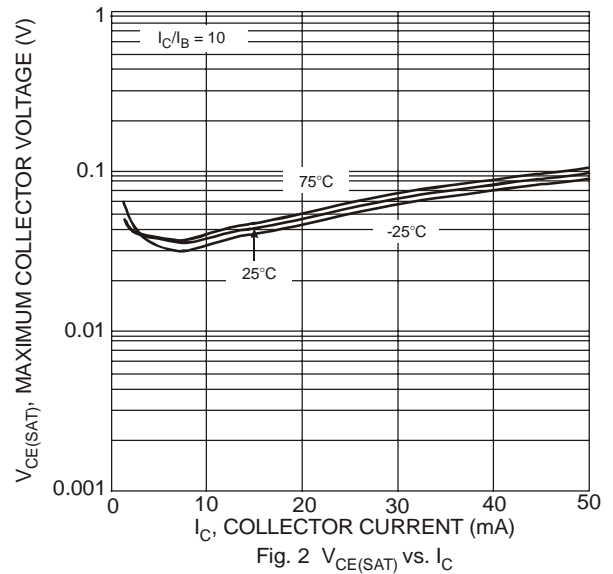
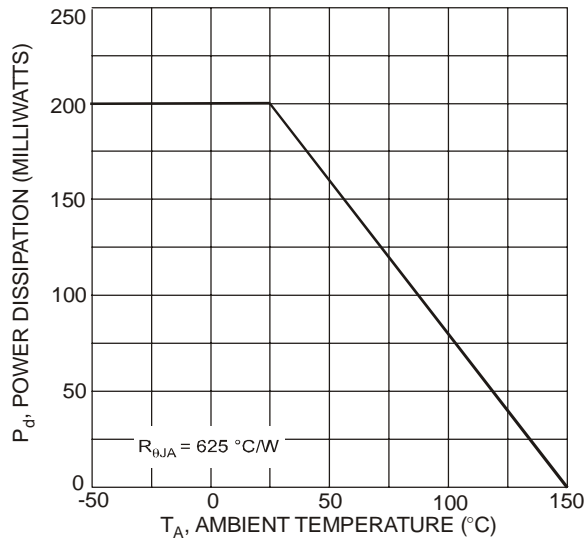


Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Collector-Base Breakdown Voltage	BV _{CBO}	50	—	—	V	I _C = 50μA
Collector-Emitter Breakdown Voltage	BV _{CEO}	50	—	—	V	I _C = 1mA
Emitter-Base Breakdown Voltage	BV _{EBO}	5	—	—	V	I _E = 720μA, DDTC114GUA I _E = 330μA, DDTC124GUA I _E = 160μA, DDTC144GUA I _E = 72μA, DDTC115GUA
Collector Cutoff Current	I _{CBO}	—	—	0.5	μA	V _{CB} = 50V
Emitter Cutoff Current	I _{EBO}	300 140 65 30	—	580 260 130 58	μA	V _{EB} = 4V DDTC114GUA DDTC124GUA DDTC144GUA DDTC115GUA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	—	—	0.3	V	I _C = 10mA, I _B = 0.5mA
DC Current Transfer Ratio	h _{FE}	30 56 68 82	—	—	—	I _C = 5mA, V _{CE} = 5V DDTC114GUA DDTC124GUA DDTC144GUA DDTC115GUA
Bleeder Resistor (R ₂) Tolerance	ΔR ₂	-30	—	+30	%	—
Gain-Bandwidth Product*	f _T	—	250	—	MHz	V _{CE} = 10V, I _E = -5mA, f = 100MHz

* Transistor - For Reference Only

Typical Characteristics – DDTC114GUA



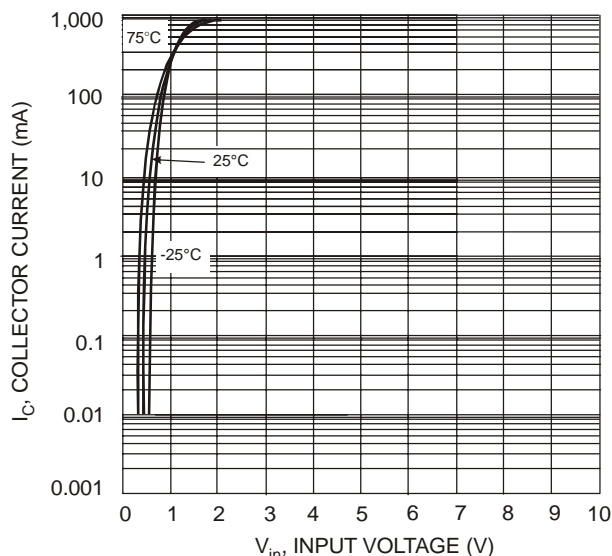


Fig. 5 Collector Current vs. Input Voltage

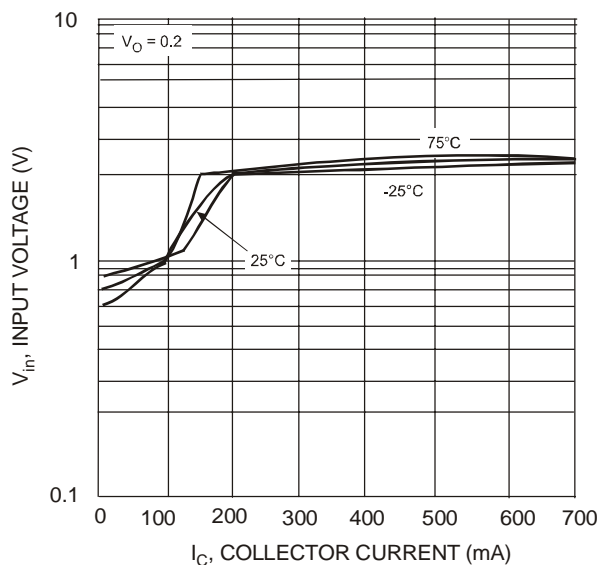


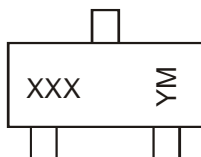
Fig. 6 Input Voltage vs. Collector Current

Ordering Information (Note 4 & 5)

Device	Packaging	Shipping
DDTC114GUA-7-F	SOT-323	3000/Tape & Reel
DDTC124GUA-7-F	SOT-323	3000/Tape & Reel
DDTC144GUA-7-F	SOT-323	3000/Tape & Reel
DDTC115GUA-7-F	SOT-323	3000/Tape & Reel

Notes: 5. For packaging details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Marking Information



XXX = Product Type Marking Code, See Table on Page 1

YM = Date Code Marking

Y = Year ex: T = 2006

M = Month ex: 9 = September

Date Code Key

Year	2006	2007	2008	2009	2010	2011	2012
Code	T	U	V	W	X	Y	Z

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D

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