

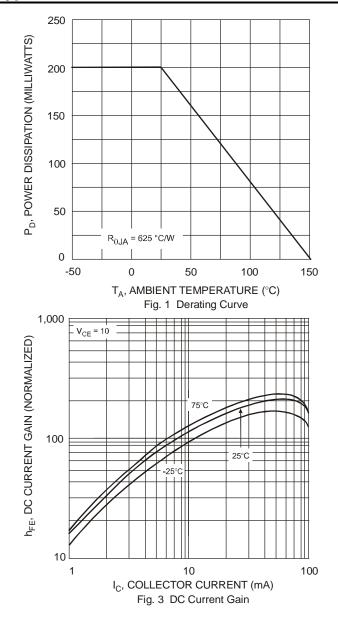
Electrical Characteristics @T_A = 25°C unless otherwise specified

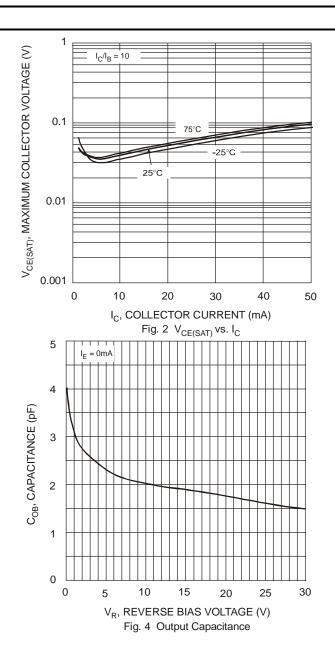
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition				
Collector-Base Breakdown Voltage	BV _{CBO}	50	—	_	V	I _C = 50μA				
Collector-Emitter Breakdown Voltage	BV _{CEO}	50	_	_	V	I _C = 1mA				
Emitter-Base Breakdown Voltage	BV _{EBO}	5	_		V	I _E = 720μA, DDTC114GCA I _E = 330μA, DDTC124GCA I _E = 160μA, DDTC144GCA I _E = 72μA, DDTC115GCA				
Collector Cutoff Current	I _{CBO}		_	0.5	μA	V _{CB} = 50V				
Emitter Cutoff Current	DDTC114GCA DDTC124GCA DDTC144GCA DDTC115GCA	I _{EBO}	300 140 65 30		580 260 130 58	μΑ	V _{EB} = 4V			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	_	_	0.3	V	I _C = 10mA, I _B = 0.5mA				
DC Current Transfer Ratio	DDTC114GCA DDTC124GCA DDTC144GCA DDTC115GCA	h _{FE}	30 56 68 82	_			I _C = 5mA, V _{CE} = 5V			
Bleeder Resistor (R ₂) Tolerance	ΔR_2	-30	_	+30	%	_				
Gain-Bandwidth Product*	f _T	_	250	_	MHz	V _{CE} = 10V, I _E = -5mA, f = 100MHz				

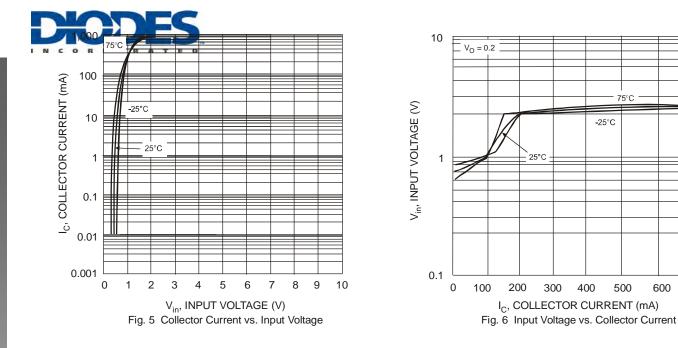
* Transistor - For Reference Only



Typical Curves – DDTC114GCA





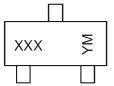


Ordering Information (Note 4)

Device	De che vin v	Chinning
Device	Packaging	Shipping
DDTC114GCA-7-F	SOT-23	3000/Tape & Reel
DDTC124GCA-7-F	SOT-23	3000/Tape & Reel
DDTC144GCA-7-F	SOT-23	3000/Tape & Reel
DDTC115GCA-7-F	SOT-23	3000/Tape & Reel

Notes: 4. 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	Т	U	V	W	Х	Y	Z	

Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	Ν	D

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