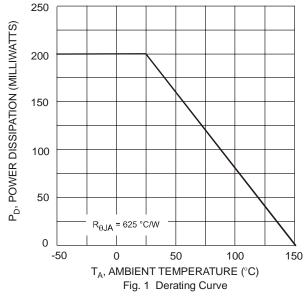


Electrical Characteristics @T_A = 25°C unless otherwise specified

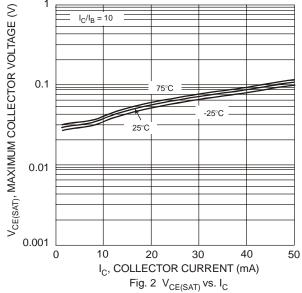
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Collector-Base Breakdown Voltage	BV_{CBO}	50	_	_	V	$I_C = 50\mu A$
Collector-Emitter Breakdown Voltage	BV _{CEO}	50			٧	$I_C = 1mA$
Emitter-Base Breakdown Voltage	BV_{EBO}	5	_		V	$I_E = 50\mu A$
Collector Cutoff Current	I _{CBO}	_	_	0.5	μΑ	$V_{CB} = 50V$
Emitter Cutoff Current	I _{EBO}		_	0.5	μΑ	$V_{EB} = 4V$
Collector-Emitter Saturation Voltage	VCE(sat)	I	l	0.3	>	$\begin{split} & I_{C/IB} = 10 \text{mA}/1 \text{mA} & \text{DDTC113TUA} \\ & I_{C/IB} = 5 \text{mA}/0.5 \text{mA} & \text{DDTC123TUA} \\ & I_{C/IB} = 2.5 \text{mA}/.25 \text{mA} & \text{DDTC143TUA} \\ & I_{C/IB} = 1 \text{mA}/.1 \text{mA} & \text{DDTC114TUA} \\ & I_{C/IB} = 5 \text{mA}/0.5 \text{mA} & \text{DDTC124TUA} \\ & I_{C/IB} = 2.5 \text{mA}/.25 \text{mA} & \text{DDTC144TUA} \\ & I_{C/IB} = 1 \text{mA}/0.1 \text{mA} & \text{DDTC115TUA} \\ & I_{C/IB} = .5 \text{mA}/.05 \text{mA} & \text{DDTC125TUA} \\ \end{split}$
DC Current Transfer Ratio	h_{FE}	100	250	600		$I_C = 1mA$, $V_{CE} = 5V$
Input Resistor (R ₁) Tolerance	ΔR_1	-30	_	+30	%	_
Gain-Bandwidth Product*	f⊤	_	250		MHz	$V_{CE} = 10V, I_E = -5mA,$ f = 100MHz

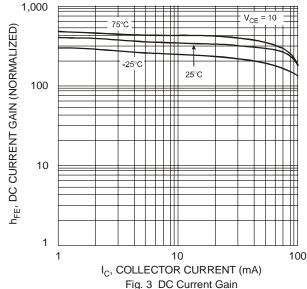
^{*}Transistor - For Reference Only

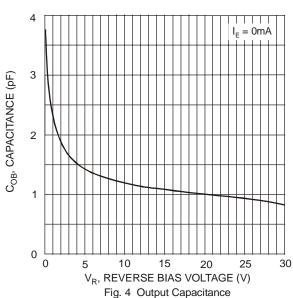
Typical Curves - DDTC114TUA





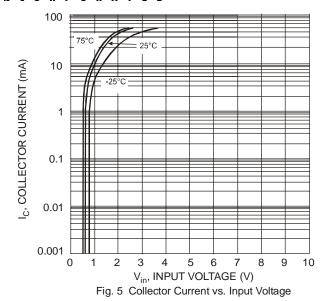


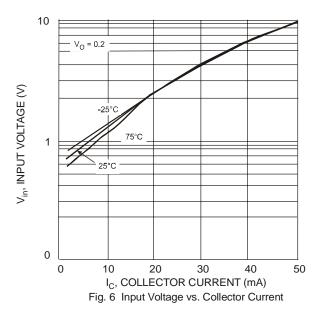




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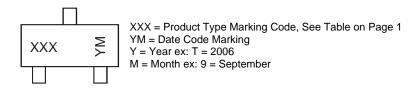


Ordering Information (Note 4 & 5)

Device	Packaging	Shipping			
DDTC1xxTUA-7-F	SOT-323	3000/Tape & Reel			
DDTC1xxTUA-13-F	SOT-323	10,000/Tape & Reel			

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

Marking Information



Date Code Key

Year	2006		2007	007 2008		2009		2010		2011	2012	
Code	Т		U		V	V	W			Υ	Z	
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	Ν	D

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