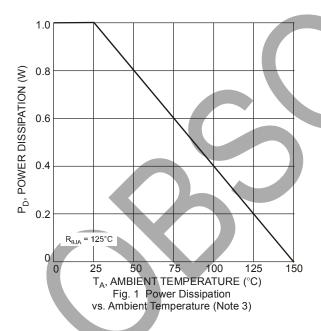
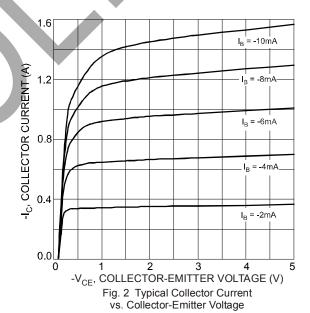


Electrical Characteristics @T_A = 25°C unless otherwise specified

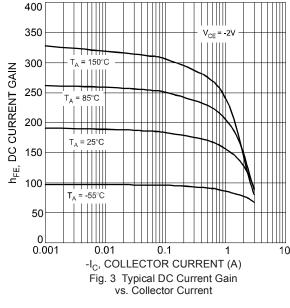
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
OFF CHARACTERISTICS (Note 5)						
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-80			V	$I_C = -100 \mu A, I_E = 0$
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-60	_		>	$I_C = -10 \text{mA}, I_B = 0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5	_		>	$I_E = -100 \mu A, I_C = 0$
Collector Cutoff Current	I _{CBO}	_	0.1 -10	-	μΑ	$V_{CB} = -60V, I_{E} = 0$
Collector Catoli Carrent				-10	μΑ	$V_{CB} = -60V$, $I_E = 0$, $T_A = 100$ °C
Emitter Cutoff Current	I _{EBO}	_	_	-0.1	μΑ	$V_{EB} = -4V, I_{C} = 0$
ON CHARACTERISTICS (Note 5)		•	1			
Collector-Emitter Saturation Voltage	V	_	-0.08	-0.3	V	$I_C = -1A$, $I_B = -100mA$
Concolor Emiliar Calaration Voltage	V _{CE(SAT)}	_	-0.2	-0.6	V	$I_C = -3A$, $I_B = -300mA$
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	_	-0.9	-1.25	V	$I_C = -1A$, $I_B = -100mA$
Base-Emitter Turn-On Voltage	$V_{BE(ON)}$	_	-0.8	-1	V	$V_{CE} = -2V, I_{C} = -1A$
		70	200	_		$V_{CE} = -2V, I_{C} = -50mA$
DC Current Gain	h _{FE}	100	180	300		$V_{CE} = -2V, I_{C} = -500mA$
Do ourient dam		80	160			$V_{CE} = -2V$, $I_C = -1A$
		40	140			$V_{CE} = -2V$, $I_C = -2A$
AC CHARACTERISTICS						
Transition Frequency	f⊤	100	145		MHz	$V_{CE} = -5V$, $I_{C} = -100$ mA, f = 100MHz
Output Capacitance	Cobo	_	47	30	pF	V _{CB} = -10V, f = 1MHz
Switching Times	ton	_	45	-4	ns	V _{CC} = -10V, I _C = -500mA,
Owitering Times	t_{off}	_	200		ns	$I_{B1} = I_{B2} = -50 \text{mA}$

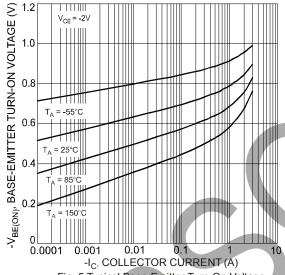
Notes: 5. Pulse Test: Pulse width $\leq 300 \mu s$. Duty cycle $\leq 2.0\%$.

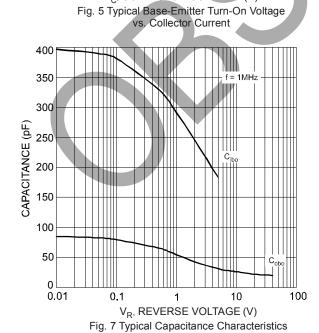


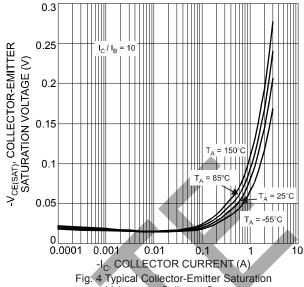












Voltage vs. Collector Current

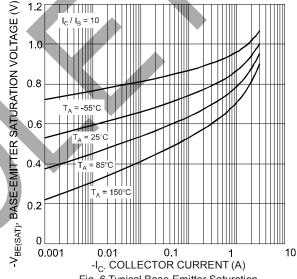


Fig. 6 Typical Base-Emitter Saturation Voltage vs. Collector Current

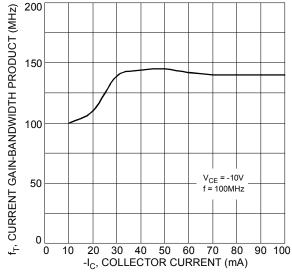


Fig. 8 Typical Gain-Bandwidth Product vs. Collector Current

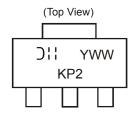


Ordering Information (Note 6)

Device	Packaging	Shipping
DZT751-13	SOT-223	2500/Tape & Reel

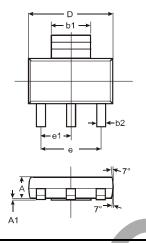
Notes: 6. For packaging details, please go to our website at http://www.diodes.com/ap02007.pdf.

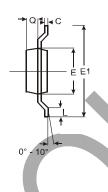
Marking Information



KP2 = Product Type Marking Code YWW = Date Code Marking Y = Last digit of year ex: 7 = 2007 WW = Week code 01 - 52

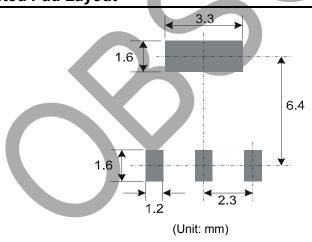
Package Outline Dimensions





SOT-223							
Dim	Min	Max	Тур				
Α	1.55	1.65	1.60				
A1	0.010	0.15	0.05				
b1	2.90	3.10	3.00				
b2	0.60	0.80	0.70				
С	0.20	0.30	0.25				
D	6.45	6.55	6.50				
Е	3.45	3.55	3.50				
E1	6.90	7.10	7.00				
Ф	_	_	4.60				
e1			2.30				
L	0.85	1.05	0.95				
Q	0.84	0.94	0.89				
All Dimensions in mm							

Suggested Pad Layout





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