



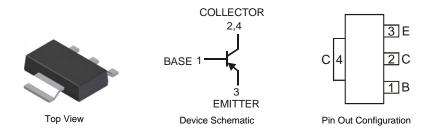
SOT223 PNP SILICON PLANAR HIGH PERFORMANCE TRANSISTOR

Features

- V_{CEO} = 60V
- Continuous current I_{C(cont)} = 3A
- Low Saturation Voltage
- Complementary Type FZT651

Mechanical Data

- Case: SOT-223
- UL Flammability Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Matte Tin Finish
- Weight: 0.112 grams (approximate)

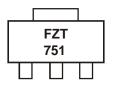


Ordering Information

Product	Marking	Reel size (inches)	Tape width (mm)	Quantity per reel
FZT751TA	FZT751	7	12	1000
FZT751-7 (Note 1)	FZT751	7	12	1000

Notes: 1. "Green" version.

Marking Information



FZT751 = Product type Marking Code





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}	-60	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	Ic	-3	Α
Peak Pulse Current	I _{CM}	-6	Α

Thermal Characteristics

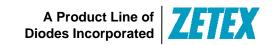
Characteristic	Symbol	Value	Unit
Power Dissipation at T _A = 25°C	P_{D}	2	W
Operating and Storage Temperature Range	$T_{J_1}T_{STG}$	-55 to +150	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

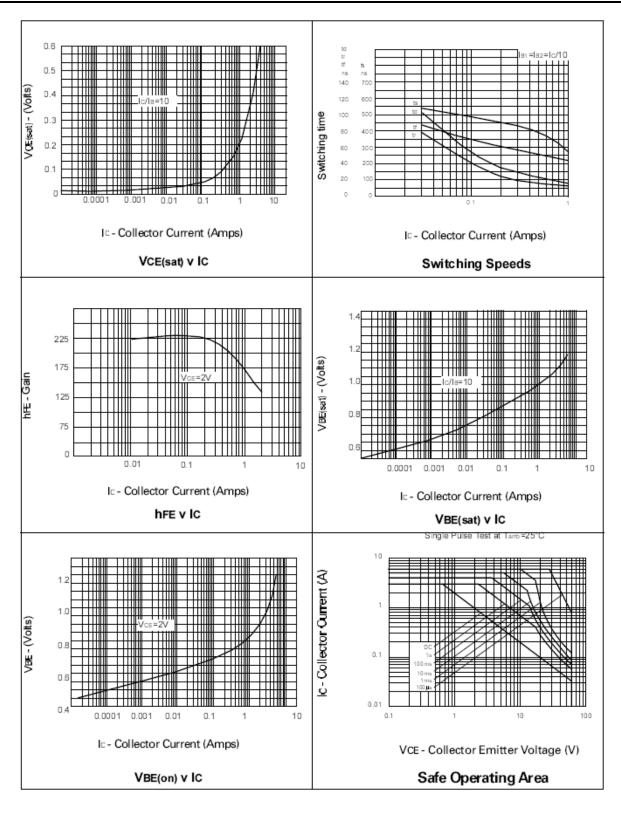
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-80	-	-	V	$I_{C} = -100 \mu A$
Collector-Emitter Breakdown Voltage (Note 2)	V _{(BR)CEO}	-60	_	-	V	$I_C = -10 \text{mA}$
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5	-	_	V	I _E = 100μA
Collector Cut-off Current	I _{CBO}	-	_ _	-0.1 -10	μA μA	V _{CB} = -60V V _{CB} = -60V, T _{amb} = 100°C
Emitter Cut-off Current	I _{EBO}	_	_	-0.1	. μA	$V_{EB} = -4V$
Collector-Emitter Saturation Voltage (Note 2)	V _{CE(SAT)}	-	-0.15 -0.45	0.3 0.6	V	$I_C = -1A$, $I_B = -100$ mA $I_C = -3A$, $I_B = -300$ mA
Base-Emitter Saturation Voltage (Note 2)	V _{CE(SAT)}	_	-0.9	-1.25	V	$I_C = -1A$, $I_B = -100mA$
Base-Emitter Turn-On Voltage (Note 2)	V _{BE(ON)}	_	-0.8	-1.0	mV	$I_C = -1A$, $V_{CE} = -2V$
DC Current Gain (Note 2)	h _{FE}	70 100 80 40	200 200 170 150	300 - -		$I_C = -50$ mA, $V_{CE} = -2V$ $I_C = -500$ mA, $V_{CE} = -2V$ $I_C = -1$ A, $V_{CE} = -2V$ $I_C = -2$ A, $V_{CE} = -2V$
Current Gain-Bandwidth Product (Note 2)	f⊤	100	140	=	MHz	$V_{CE} = -5V, I_{C} = -100mA$ f = 100MHz
Turn-On Time	t _{on}	_	40	-	nA	V _{CC} = -10V, I _C = -500mA
Turn-Off Time	t _{off}	_	450	_	nA	I _{B1} = I _{B2} = -50mA
Output Capacitance (Note 2)	C _{obo}	_	-	30	pF	V _{CB} = -10V. f = 1MHz

Notes: 2. Measured under pulsed conditions. Pulse width = 300 μ s. Duty cycle \leq 2%



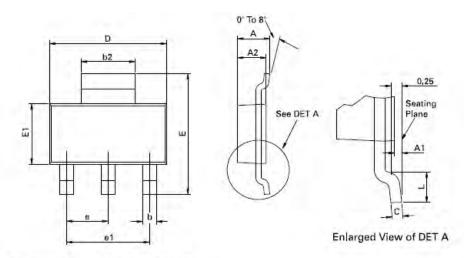


Typical Characteristics





Package Outline Dimensions

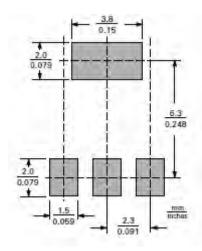


Conforms to JEDEC TO-261 AA Issue B

Dim.	Millimeters		Inches		Dim.	Millimeters		Inches	
	Min.	Max.	Min.	Max.	Dim.	Min.	Max.	Min.	Max.
Α		1.80	(2)	0.071	D	6.30	6.70	0.248	0.264
A1	0.02	0.10	0.0008	0.004	е	2.30 BSC		0.0905 BSC	
A2	1.55	1.65	0.0610	0.0649	e1	4.60 BSC		0.181 BSC	
b	0.66	0.84	0.026	0.033	E	6.70	7.30	0.264	0.287
b2	2.90	3.10	0.114	0.122	E1	3.30	3.70	0.130	0.146
С	0.23	0.33	0.009	0.013	L	0.90		0.035	- €

Note: Controlling dimensions are in millimeters. Approximate dimensions are provided in inches

Suggested Pad Layout







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