# Single Bipolar Transistor multicomp



#### Features

- 60 Volt VCEO.
- 3 Amp continuous current.
- Low saturation voltage.

#### Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	Vсво	80	V	
Collector-emitter voltage	Vceo	60		
Emitter - Base Voltage	Vebo	5		
Peak pulse current	lc	3	A	
Continuous collector current	Ісм	6		
Power Dissipation	Ptot	2	W	
Operating and storage temperature range	TJ, Tstg	-55 to +150	°C	

#### Electrical Characteristics (TA = 25°C

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Collector- base breakdown voltage	V(BR)CBO	Ic= 100 μA	80			v	
Collector- emitter breakdown voltage *	V(BR)CEO	Ic= 10mA	60				
Emitter - base breakdown voltage	V(BR)EBO	ο Ιε= 100μΑ					
Collector cutoff current	Ісво	V <sub>CB</sub> =60V, V <sub>CEB</sub> = 60V, Ta = 100°С			0.1 10	μA	
Emitter cut-off current	Іево	VEB=4V			0.1		
Collector-emitter saturation voltage *	VCE(sat)	Ic=1А, Iв=100mA Ic=3А, Iв=300mA		0.12 0.43	0.3 0.6	v	
Base-emitter saturation voltage *	VBE(sat)	Ic= 1А, Iв= 100mА		0.9	1.25		
Base-Emitter Turn-On Voltage *	VBE(on)	Ic= 1A Vce=2V		0.8	1		
Static Forward Current Transfer Ratio		Ic= 50mA, VcE= 2V*	70	200			
	h	Ic= 500mA, Vce= 2V*	100	200	300		
	hfe	Ic= 1A, Vc== 2V*	80	170			
		Ic= 2A Vce= 2V*	40	80			
Transitional frequency	f⊤	Ic=10mA, Vc∈= 5V, f=100MHz	140	175		MHz	
Output capacitance	Cobo	Vсв= 10V, f=1MHz			30	pF	
Switching times	ton			45			
	toff	Ic=500mA, Vcc=10V, Ів1=Ів2=50mA		800		nS	

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\* Pulse test: tp = 300 μs; d≤0.02.

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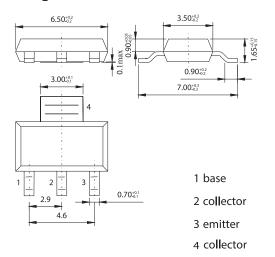


**RoHS** 

Compliant

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Diagram



### Part Number Table

	Description	Part Number
Dimensions : Millimetres	Single Bipolar Transistor, NPN, 3A, 60V, SOT 223	FZT651

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