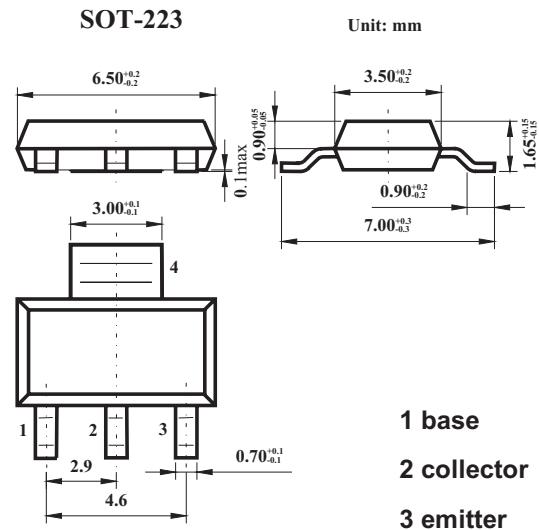


**Features**

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


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

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	80	V
Collector-emitter voltage	V <sub>CEO</sub>	60	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Peak pulse current	I <sub>c</sub>	3	A
Continuous collector current	I <sub>CM</sub>	6	A
Power dissipation	P <sub>tot</sub>	2	W
Operating and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +125	°C

**Electrical Characteristics Ta = 25**

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	Ic=100µA	80			V
Collector-emitter breakdown voltage *	V(BR)CEO	Ic=10mA	60			V
Emitter-base breakdown voltage	V(BR)EBO	Ie=100µA	5			V
Collector Cut-Off Current	IcBO	Vcb=60V Vcb=60V,Ta = 100°C			0.1 10	µA
Emitter Cut-Off Current	IeBO	Veb=4V			0.1	µA
Collector-emitter saturation voltage *	Vce(sat)	Ic=1A, Ib=100mA Ic=3A, Ib=300mA		0.12 0.43	0.3 0.6	V
Base-emitter saturation voltage *	Vbe(sat)	Ic=1A, Ib=100mA		0.9	1.25	V
Base-Emitter Turn-On Voltage *	Vbe(on)	Ic=1A, Vce=2V		0.8	1	V
Static Forward Current Transfer Ratio	hFE	Ic=50mA, Vce =2V*	70	200		
		Ic=500mA, Vce =2V*	100	200	300	
		Ic=1A, Vce =2V*	80	170		
		Ic=2A, Vce =2V*	40	80		
Transitional frequency	fT	Ic=100mA, Vce=5V f=100MHz	140	175		MHz
Output capacitance	Cobo	Vcb=10V, f=1MHz			30	pF
Switching times	ton	Ic=500mA, Vcc=10V, Ib1=Ib2=50mA		45		ns
	toff			800		ns

\* Pulse test: tp = 300 µs; d ≤ 0.02.

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