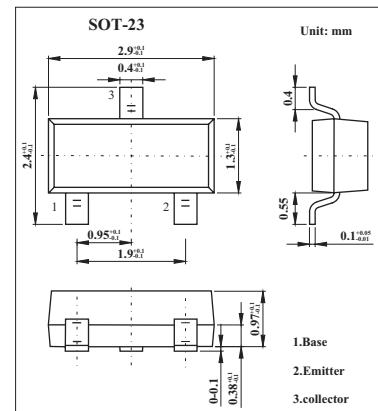


NPN General Purpose Amplifier

BSS64



■ Features

- NPN general purpose amplifier

■ Absolute Maximum Ratings Ta = 25°C unless otherwise noted

Parameter	Symbol	Rating	Unit
Collector-emitter voltage	V _{C EO}	80	V
Collector-base voltage	V _{CBO}	120	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	200	mA
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C
Total device dissipation	P _D	350	mW
Derate above 25°C		2.8	mW/°C
Thermal resistance, junction to ambient	R _{θJA}	357	°C/W

■ Electrical Characteristics Ta = 25°C unless otherwise noted

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 4.0 mA, I _B = 0	80			V
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100 μA, I _E = 0	120			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100 μA, I _C = 0	5			V
Collector-cutoff current	I _{CBO}	V _{CB} = 90 V, I _E = 0			0.1	μA
		V _{CB} = 90 V, I _E = 0, T _A = 150°C			50	μA
Emitter-base cut-off current	I _{EBO}	V _{EB} = 5.0 V, I _C = 0			200	nA
DC current gain	h _{FE}	I _C = 10 mA, V _{CE} = 1.0 V	20			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 4.0 mA, I _B = 400 μA			0.15	V
		I _C = 50 mA, I _B = 15 mA			0.2	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 4.0 mA, I _B = 400 μA			1.2	V
Current gain - bandwidth product	f _T	I _C = 4.0 mA, V _{CE} = 10, f = 35 MHz	60			MHz
Output capacitance	C _{ob}	V _{CB} = 10 V, f = 1.0 MHz			5	pF

■ Marking

Marking	U3
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