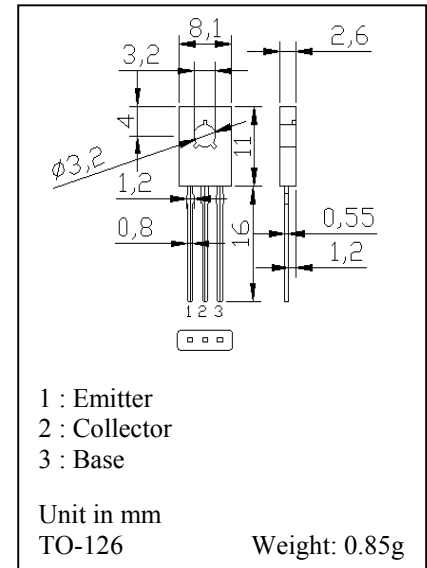


PNP SILICON POWER TRANSISTOR

...designed for output stage of 3 watts audio amplifier, voltage regulator, DC-DC converter and relay driver.



MAXIMUM RATINGS (Ta= 25 °C)

Characteristic	Symbol	Value	Unit
Collector Base Voltage	V _{CB0}	-40	V
Collector Emitter Voltage	V _{CEO}	-30	V
Emitter Base Voltage	V _{EB0}	-5	V
Collector Current (DC)	I _{C(DC)}	-3	A
Collector Current (Pulse)	I _{C(Pulse)*}	-7	A
Total Power Dissipation	P _{tot}		W
Ta=25°C		1	
Tc=25°C		10	
Storage Temperature	T _{stg}	-55 ~ 150	°C
Junction Temperature	T _j	150	°C

*Pulse Test PW ≤ 350µs, Duty Cycle ≤ 2%

ELECTRICAL CHARACTERISTICS (Ta= 25 °C)

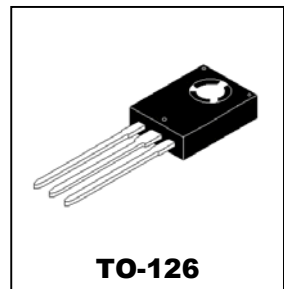
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} = -30V, I _E = 0	-	-	-1	µA
Emitter Cutoff Current	I _{EBO}	V _{EB} = -3.0V, I _C = 0	-	-	-1	µA
Collector Saturation Voltage	V _{CE(sat)}	I _C = -2.0A, I _B = -0.2A**	-	-0.3	-0.5	V
Base Saturation Voltage	V _{BE(sat)}	I _C = -2.0A, I _B = -0.2A**	-	-1	-2	V
DC Current Gain	h _{FE1}	V _{CE} = -2.0V, I _C = -20mA**	30	220	-	-
DC Current Gain	h _{FE2}	V _{CE} = -2.0V, I _C = -1.0A**	60	160	400	-
Gain Bandwidth Product	f _T	V _{CE} = -50V, I _C = -0.1A	-	80	-	MHz
Output Capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1.0MHz	-	55	-	pF

**Pulse Test: PW ≤ 350µs, Duty Cycle ≤ 2%

Classification of hFE(2)

Class	R	Q	P	E
hFE(2)	60 to 120	100 to 200	160 to 320	200 to 400

**PNP SILICON
POWER
TRANSISTOR**



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