

PNP SILICON TRANSISTOR

BD140-16

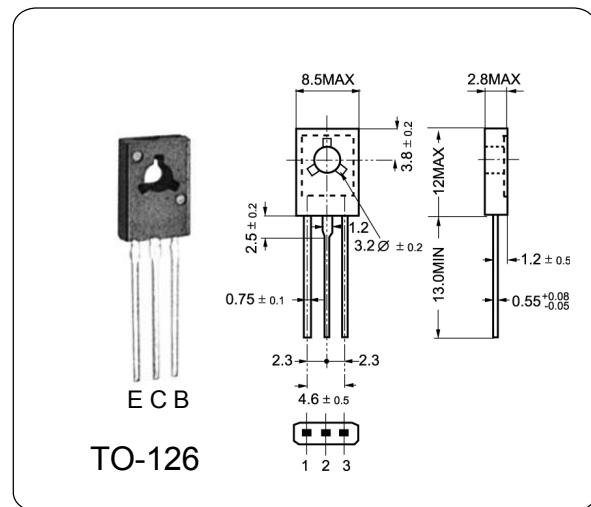
DESCRIPTION

The BD140-16 is silicon epitaxial planar PNP transistors in Jedec TO-126 plastic package, designed for audio amplifiers and drivers utilizing complementary or quasi complementary circuits.

The complementary NPN types are the BD139-16

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-80	V
Emitter-Base Voltage	V _{EBO}	-5.0	V
Collector Current	I _C	-1.5	A
Base Current	I _B	-0.5	A
Total Dissipation at	P _{tot}	12.5	W
Max. Operating Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I _{CBO}	V _{CB} = -80V, I _E = 0	—	—	-10	µA
Emitter Cut-off Current	I _{EBO}	V _{EB} = -5.0V, I _C = 0	—	—	-10	µA
Collector-Emitter Sustaining Voltage	V _{CEO}	I _C = -1.0mA, I _B = 0	-80	—	—	V
DC Current Gain	h _{FE}	V _{CE} = -2.0V, I _C = -0.15A	100	—	250	
		V _{CE} = -2.0V, I _C = -0.5A	100	—	—	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = -0.5A, I _B = -0.05A	—	—	-0.5	V
Base-Emitter Voltage	V _{BE}	I _C = -0.5A, V _{CE} = -2.0V	—	—	-1.0	V
Transition Frequency	f _T	V _{CE} = -5.0V, I _C = -50mA	80	—	—	MHz