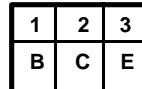


BC182LA

SILICON NPN SMALL SIGNAL TRANSISTOR

BVCEO 50 V (Min)

hFE 80 (Min) @ VCE = 5.0 V, IC = 100 mA



ABSOLUTE MAXIMUM RATINGS (NOTE 1)

TEMPERATURES

Storage Temperature -55 Degrees C to 150 Degrees C

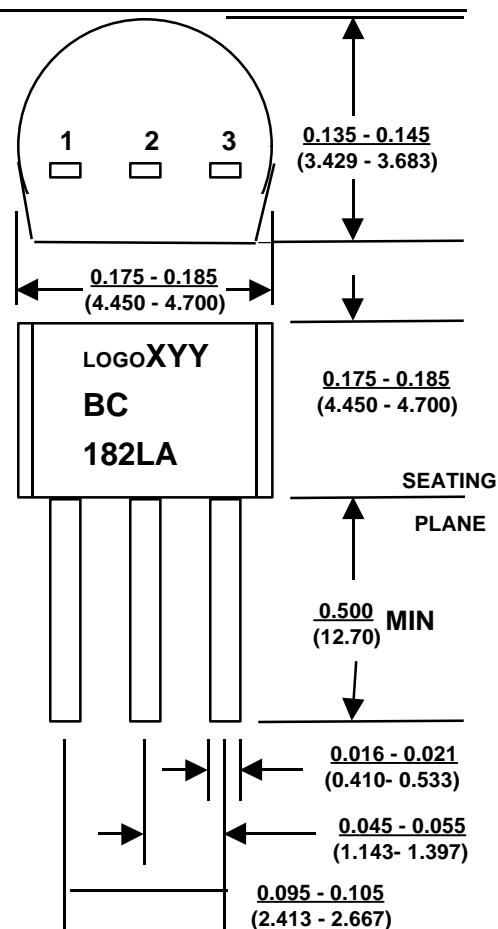
Operating Junction Temperature 150 Degrees C

POWER DISSIPATION (NOTES 2 & 3)

Total Device Dissipation at TA = 25 Deg C 625 mW

VOLTAGES & CURRENT

VCEO	Collector to Emitter	50 V
V _{CBO}	Collector to Base	60 V
V _{EBO}	Emitter to Base	5 V
I _C	Collector Current	500 mA



ELECTRICAL CHARACTERISTICS (25 Degrees C Ambient Temperature unless otherwise stated)

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
B _{VCB} O	Collector to Base Voltage	60		V	I _C = 10 uA
B _{VCEO}	Collector to Emitter Voltage	50		V	I _C = 2.0 mA
B _{VEBO}	Emitter to Base Voltage	5		V	I _E = 10 uA
I _{CB} O	Collector Cutoff Current		15	nA	V _{CB} = 50 V
I _{EB} O	Emitter Cutoff Current		15	nA	V _{EB} = 4.0 V
h _{FE}	DC Current Gain	40 80			V _{CE} = 5.0 V I _C = 10 uA V _{CE} = 5.0 V I _C = 100 mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.25 0.6	V	I _C = 10mA I _B = 0.5mA I _C = 100mA I _B = 5.0mA
V _{BE(sat)}	Base-Emitter Saturation Voltage		1.2	V	I _C = 100mA I _B = 5.0mA
V _{BE(on)}	Base -Emitter On Voltage	0.55	0.7	V	V _{CE} = 5.0 V I _C = 2mA

BC182LA

SILICON NPN SMALL SIGNAL TRANSISTOR

ELECTRICAL CHARACTERISTICS Con't (25 Degrees C Ambient Temperature unless otherwise stated)

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
COB	Output Capacitance		5.0	pF	V _{CB} = 10 V, f = 1 MHz
f _T	Current Gain - Bandwidth Product	150		MHz	V _{CE} = 5 V I _C = 10 mA f = 100 Mhz
h _{FE}	Small Signal Current Gain	125	260	-	V _{CE} = 5 V, I _C =2.0 mA, f=1KHz
NF	Noise Figure		10	dB	V _{CE} = 5 V, I _C = 200 uA, R _G = 2 Kohms, f = 1 KHz

NOTES:

1. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.
2. These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.
3. These ratings are based on a maximum junction temperature of 150 degrees C.