

RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

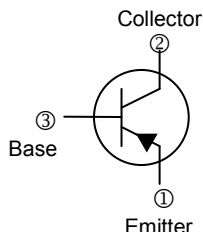
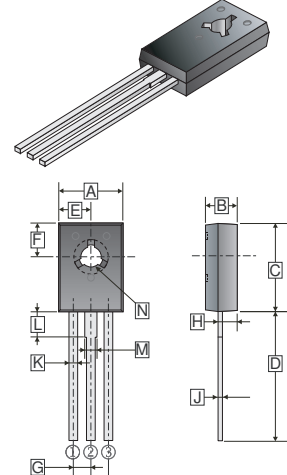
FEATURES

- Low Collector-Emitter Saturation Voltage
- Large Collector Current
- High Power Dissipation

ORDER INFORMATION

Part Number	Type
2SB1151-Y	Lead (Pb)-free
2SB1151-Y-C	Lead (Pb)-free and Halogen-free

TO-126



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	7.40	7.80	H	1.10	1.50
B	2.50	2.90	J	0.45	0.60
C	10.60	11.00	K	0.66	0.86
D	15.30	15.70	L	2.10	2.30
E	3.70	3.90	M	1.17	1.37
F	3.90	4.10	N	3.00	3.20
G	2.29 TYP.				

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EBO}	-7	V
Collector Current-Continuous	I _C	-5	A
Collector Power Dissipation	P _C	1.25	W
Maximum Junction to Ambient	R _{θJA}	100	°C/W
Junction, Storage Temperature	T _J , T _{STG}	-55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-60	-	-	V	I _C = -100μA, I _E =0
Collector-Emitter Breakdown voltage	V _{(BR)CEO}	-60	-	-	V	I _C = -1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-7	-	-	V	I _C =0, I _E = -100μA
Collector Cut-Off Current	I _{CBO}	-	-	-10	μA	V _{CB} = -50V, I _E =0
Emitter Cut-Off Current	I _{EBO}	-	-	-10	μA	V _{EB} = -7V, I _C =0
DC Current Gain	h _{FE(1)}	160	-	320		V _{CE} = -1V, I _C = -2A
	h _{FE(2)}	60	-	-		V _{CE} = -1V, I _C = -0.1A
	h _{FE(3)}	50	-	-		V _{CE} = -2V, I _C = -5A
Collector-Emitter Saturation Voltage	V _{CE(sat)}	-	-	-0.3	V	I _C = -2A, I _B = -0.2A
Base-Emitter Saturation Voltage	V _{BE(sat)}	-	-	-1.2	V	I _C = -2A, I _B = -0.2A

CHARACTERISTIC CURVES

