JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

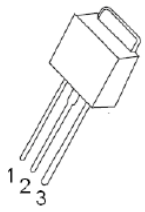
TO-251-3L Plastic-Encapsulate Transistors

2SB1182 TRANSIST OR (PNP)

FEATURES

- Power Dissipation

TO-251-3L

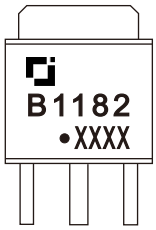


1.BASE

2.COLLECTOR

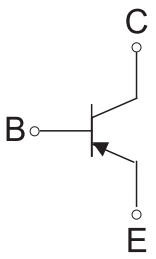
3.EMITTER

MARKING



B1182=Device code
Solid dot=Green moldinn compound device, if none,the normal device
XXXX=Code

Equivalent Circuit



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector- Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-32	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-2	A
P_C	Collector Power Dissipation	1.5	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55-150	℃

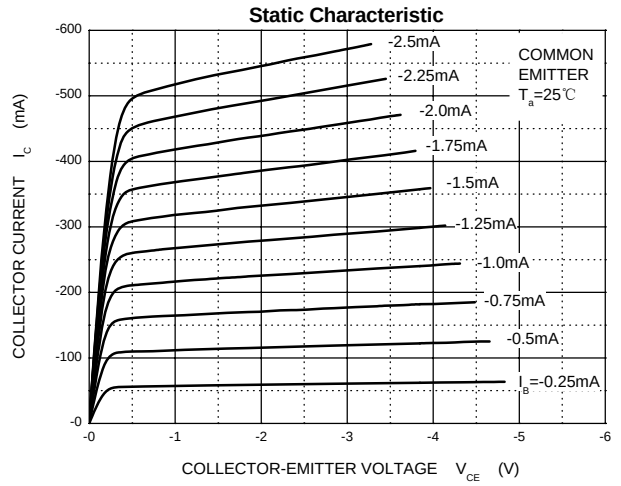
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

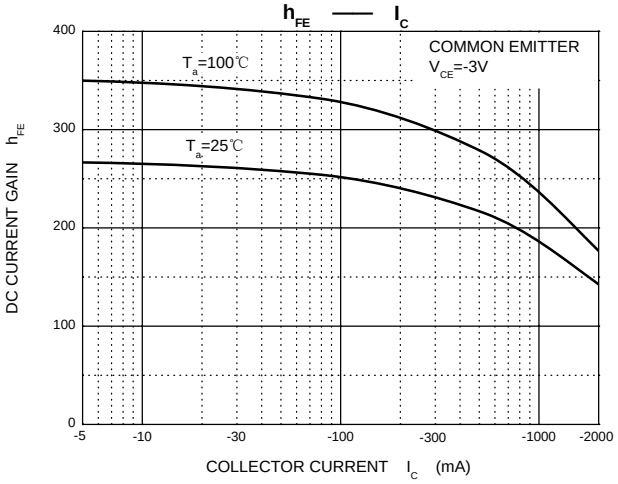
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-50μA,I_E=0	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-1mA,I_B=0	-32			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-50μA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-20V,I_E=0			-1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-4V,I_C=0			-1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=-3V,I_C=-500mA	82		390	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-2A,I_B=-200mA			-0.8	V
Transition frequency	f_T	V_{CE}=-5V,I_C=-0.5A,f=30MHz		100		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0,f=1MHz		50		pF

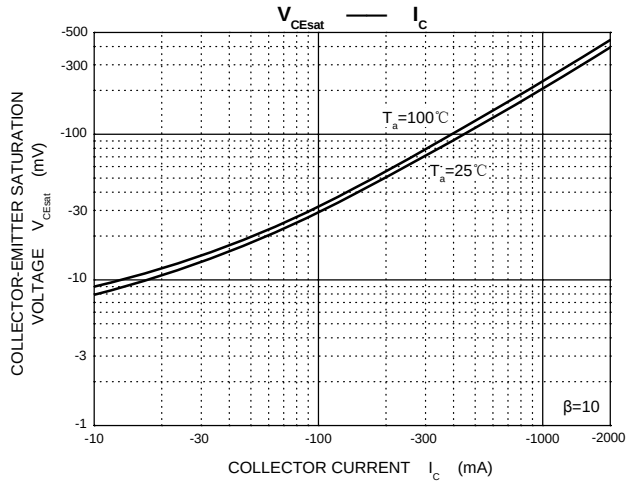
CLASSIFICATION OF $h_{FE(1)}$

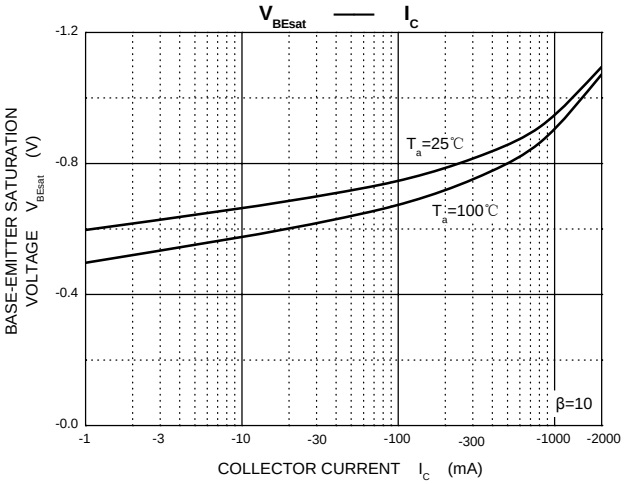
Rank	P	Q	R
Range	82-180	120-270	180-390

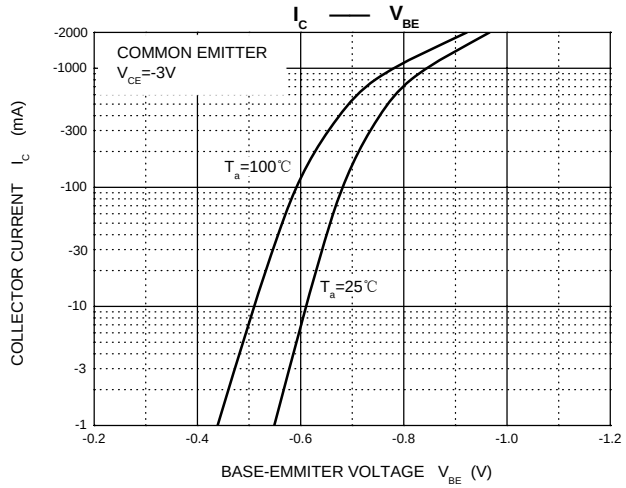
Typical Characteristics

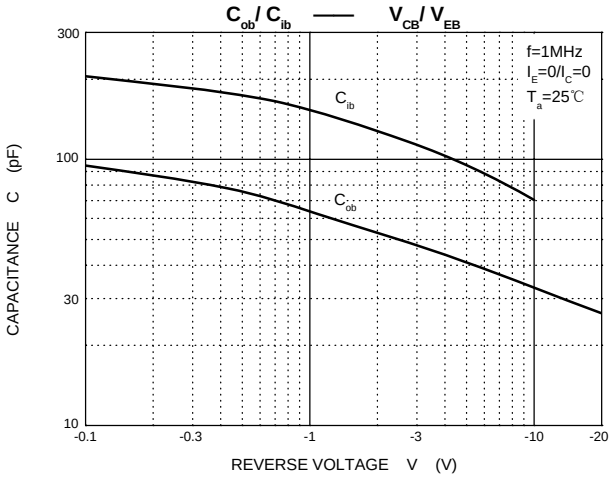


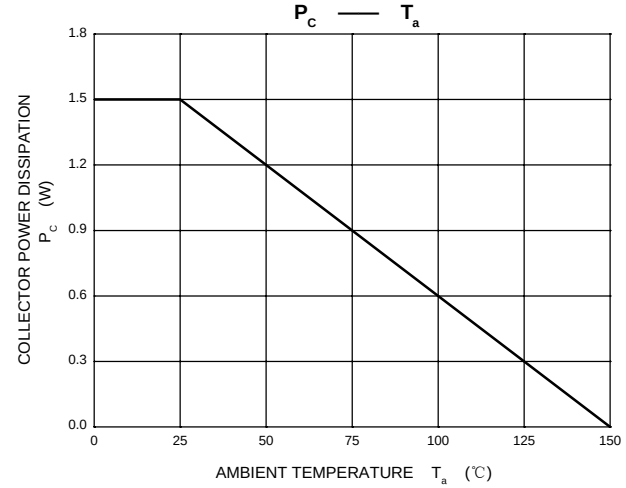




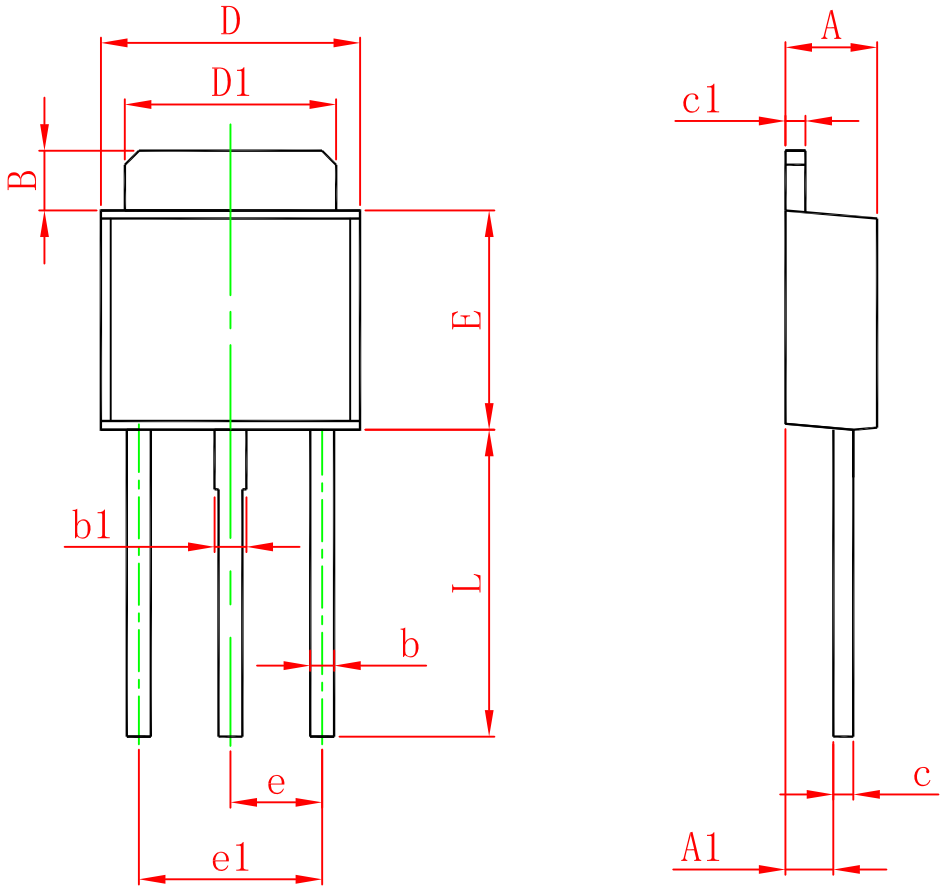








TO-251-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	1.050	1.350	0.042	0.054
B	1.350	1.650	0.053	0.065
b	0.500	0.700	0.020	0.028
b1	0.700	0.900	0.028	0.035
c	0.430	0.580	0.017	0.023
c1	0.430	0.580	0.017	0.023
D	6.350	6.650	0.250	0.262
D1	5.200	5.400	0.205	0.213
E	5.400	5.700	0.213	0.224
e	2.300 TYP.		0.091 TYP.	
e1	4.500	4.700	0.177	0.185
L	7.500	7.900	0.295	0.311