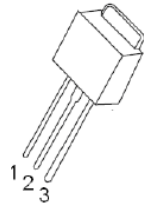
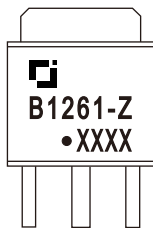


**TO-251-3L Plastic-Encapsulate Transistors****2SB1261-Z** TRANSISTOR (PNP)**FEATURES**

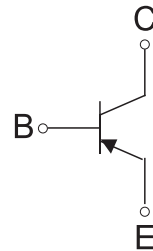
- High h_{FE}
- Low $V_{CE(sat)}$

TO-251-3L

1. BASE
2. COLLECTOR
3. EMITTER

**MARKING**

B1261-Z=Device code
Solid dot=Green moldinn compound device,
if none,the normal device
XXXX=Code

Equivalent Circuit**MAXIMUM RATINGS ($T_a=25\text{ }^{\circ}\text{C}$ unless otherwise noted)**

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current -Continuous	-3	A
P_D	Collector Power Dissipation	1	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55-150	$^{\circ}\text{C}$

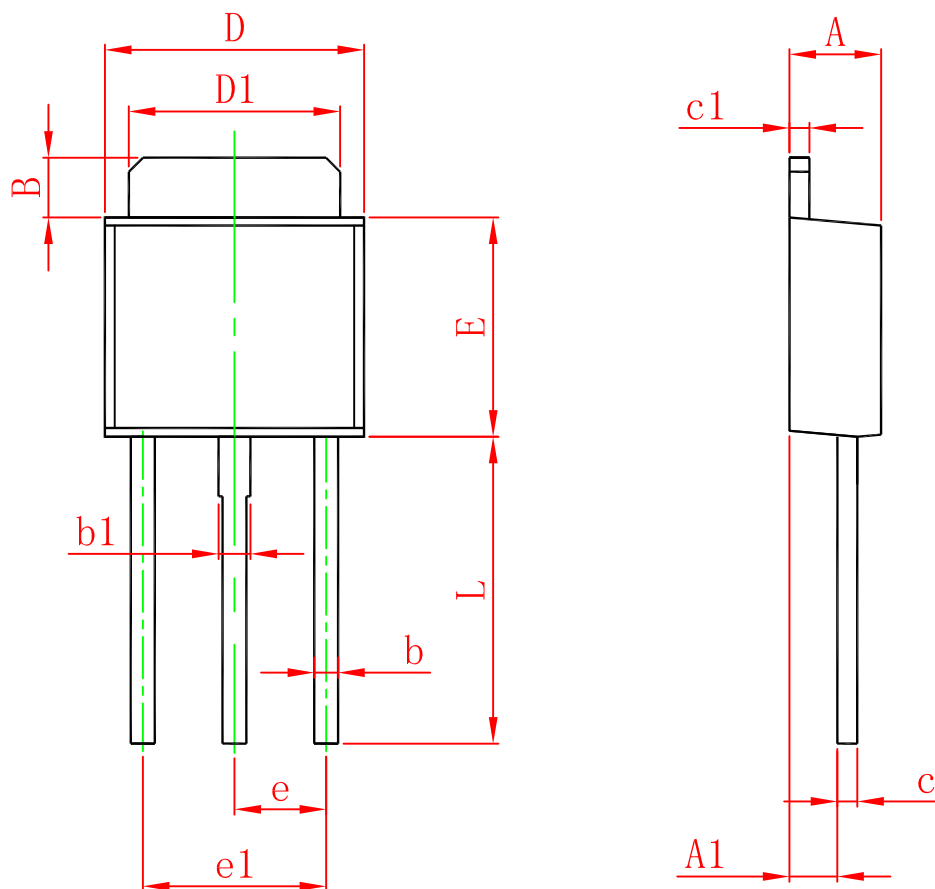
ELECTRICAL CHARACTERISTICS (T_a=25°C unless other wise specified)

Parameter		Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage		$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-60			V
Collector-emitter breakdown voltage		$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-60			V
Emitter-base breakdown voltage		$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-7			V
Collector cut-off current		I_{CBO}	$V_{CB}=-60V, I_E=0$			-10	μA
Emitter cut-off current		I_{EBO}	$V_{EB}=-7V, I_C=0$			-10	μA
DC current gain		$h_{FE(1)}$	$V_{CE}=-2V, I_C=-200mA$	60			
		$h_{FE(2)}$	$V_{CE}=-2V, I_C=-600mA$	100		400	
		$h_{FE(3)}$	$V_{CE}=-2V, I_C=-2A$	50			
Collector-emitter saturation voltage		$V_{CE(sat)}$	$I_C=-1.5A, I_B=-150mA$			-0.3	V
Base-emitter saturation voltage		$V_{BE(sat)}$	$I_C=-1.5A, I_B=-150mA$			-1.2	V
Transition frequency		f_T	$V_{CE}=-5V, I_C=-1.5A$		50		MHz
Collector output capacitance		C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		40		pF
Switching Time	Turn on Time	t_{on}	$V_{CC}=-10V, I_C=-1A, I_{B1}=-I_{B2}=-0.1A,$ $R_L=10\Omega$		0.5		μs
	Storage Time	t_{stg}			2.0		
	Fall Time	t_f			0.5		

CLASSIFICATION OF $h_{FE(2)}$

Rank	M	L	K
Range	100-200	160-320	200-400

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