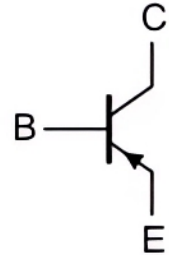


Features

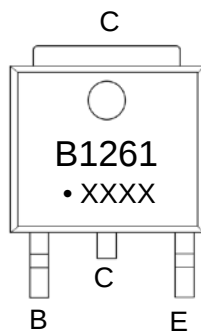
- Low $V_{CE(sat)}$
- High DC Current Gain



TO-252-2L top view



Schematic diagram



Marking and pin assignment



Halogen-Free

Maximum Ratings(Ta=25°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	-3	A
P_C	Collector Power Dissipation	1	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	125	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

Ordering Information (Example)

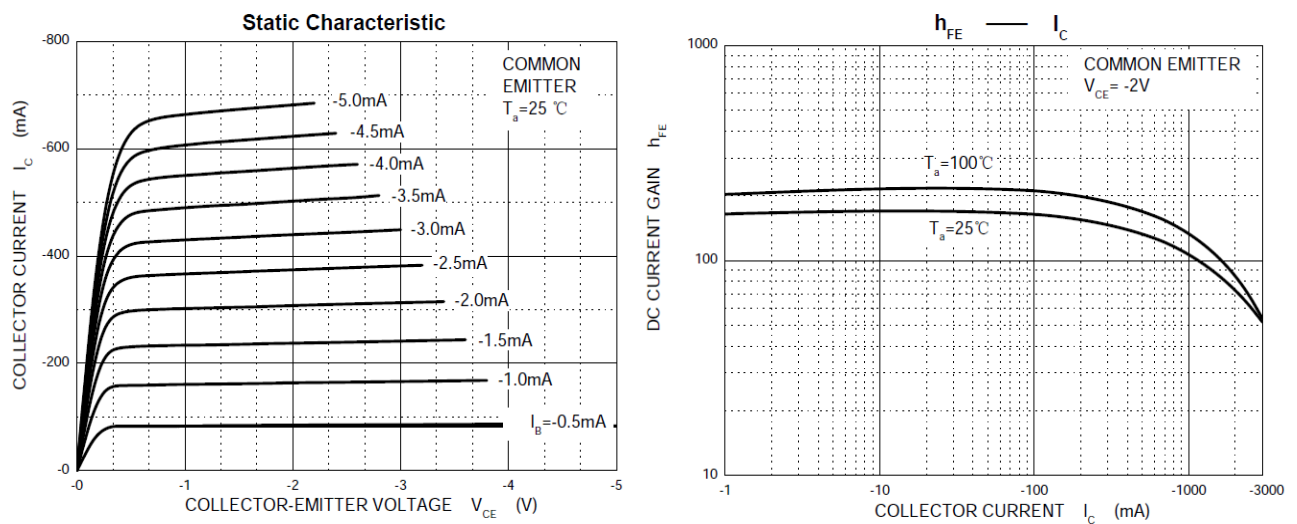
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
2SB1261	TO-252-2L	B1261	2,500	5,000	35,000	13"reel

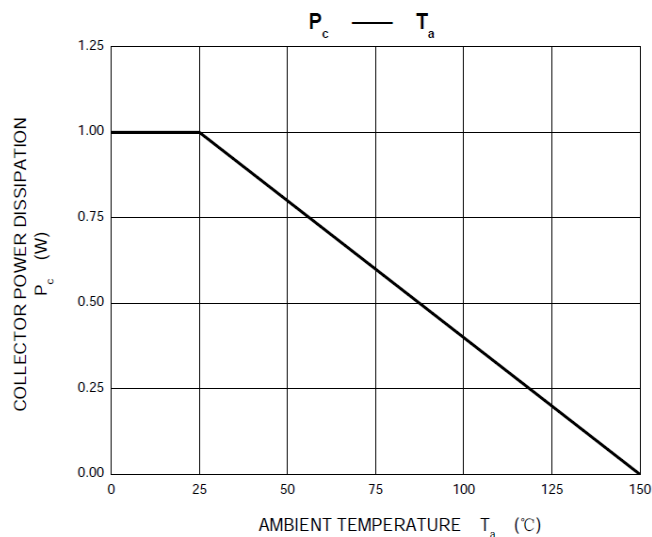
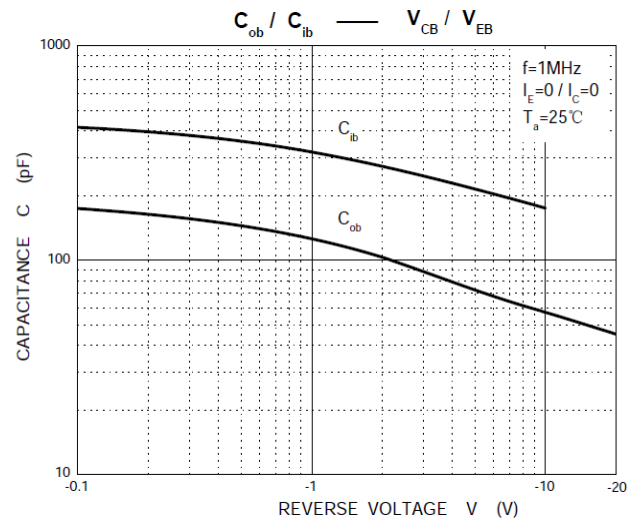
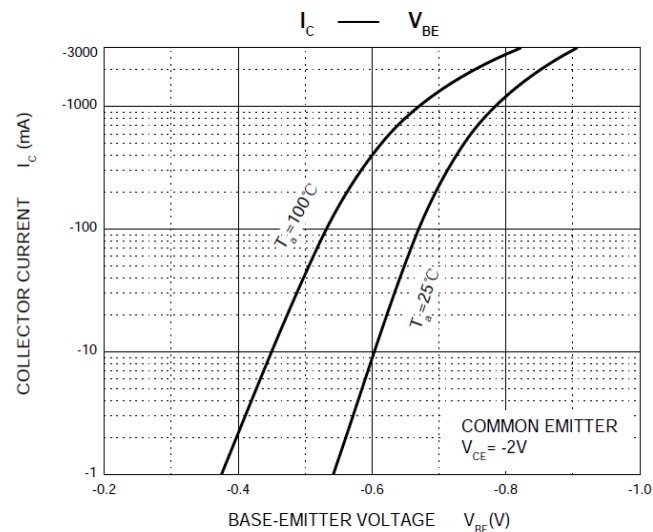
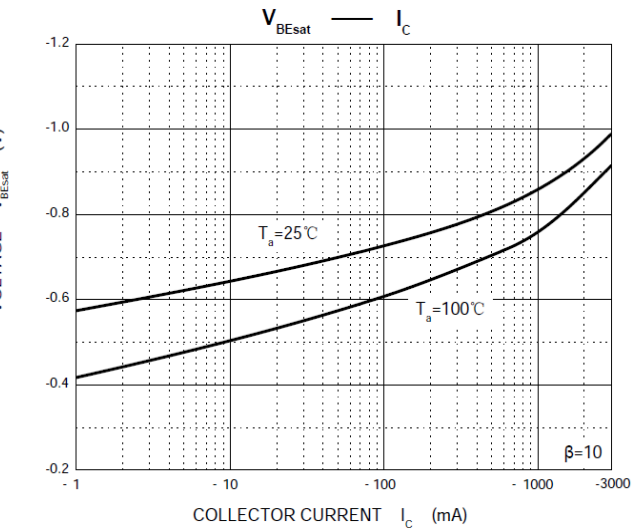
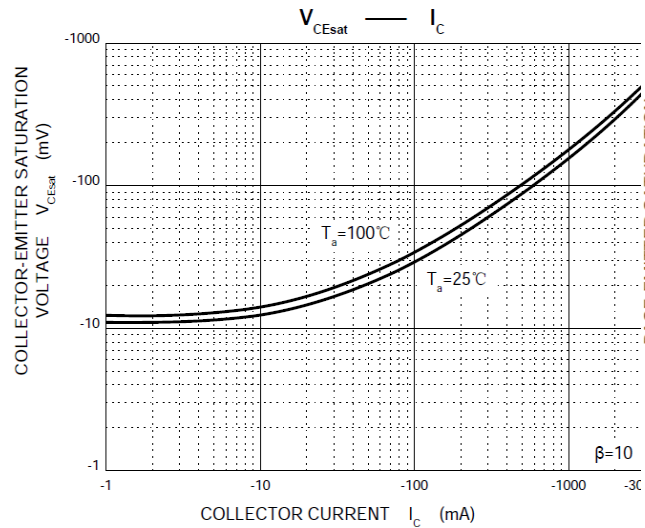
Electrical Characteristics (T_J=25°C unless otherwise noted)

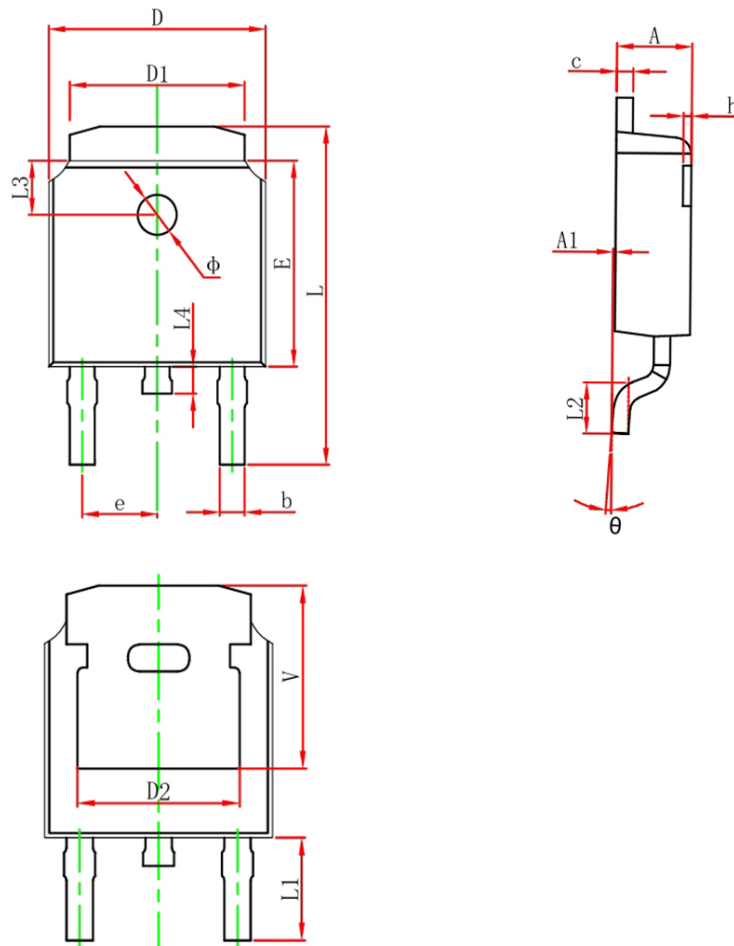
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-100μA, I _E =0	-60	--	--	V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-1mA, I _B =0	-60	--	--	V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-100μA, I _C =0	-7	--	--	V
I _{CBO}	Collector cut-off current	V _{CB} =-60V, I _E =0	--	--	-10	μA
I _{EBO}	Emitter cut-off current	V _{EB} =-7V, I _C =0	--	--	-10	μA
H _{FE(1)} *	DC current gain	V _{CE} =-2V, I _C =-0.2A	60	--	--	
H _{FE(2)} *		V _{CE} =-2V, I _C =-0.6A	100	--	400	
H _{FE(3)} *		V _{CE} =-2V, I _C =-2A	50	--	--	
V _{CE(sat)} *	Collector-emitter saturation voltage	I _C =-1.5A, I _B =-0.15A	--	--	-0.3	V
V _{BE(sat)} *	Base-emitter saturation voltage	I _C =-1.5A, I _B =-0.15A	--	--	-1.2	V
C _{ob}	Collector output capacitance	V _{CB} =-10V, I _E =0, f=1MHz	--	40	--	pF
f _T	Transition frequency	V _{CE} =-5V, I _C =-1.5A	--	50	--	MHz

Classification Of h_{FE}

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

Typical Characteristics




TO-252-2L Package information


Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.635	0.770	0.025	0.030
c	0.450	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	4.830 REF.		0.190 REF.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.712	10.312	0.386	0.406
L1	2.900 REF.		0.114 REF.	
L2	1.400	1.700	0.055	0.067
L3	1.600 REF.		0.063 REF.	
L4	0.600	1.000	0.024	0.039
ϕ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.250 REF.		0.207 REF.	