

High Voltage Mode Application

High speed Switching

Absolute Maximum Rating (Ta=25°C)

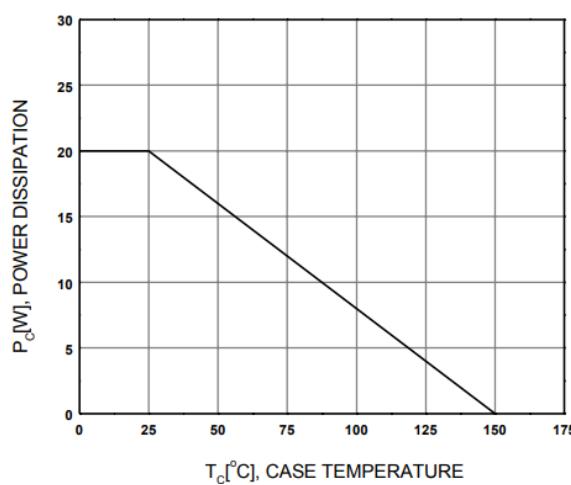
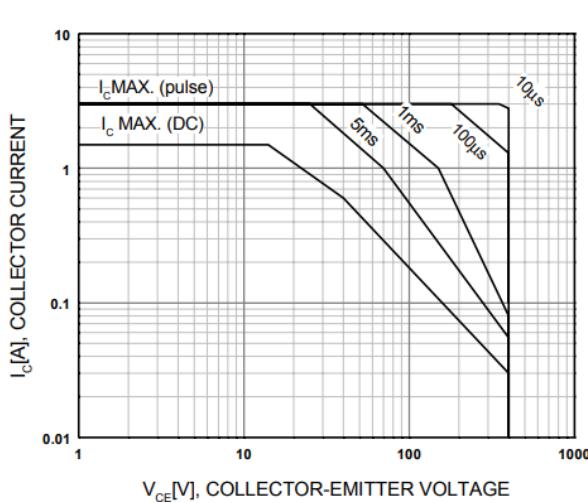
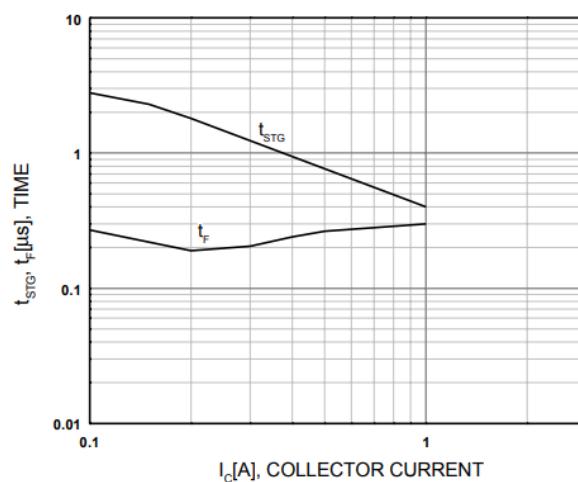
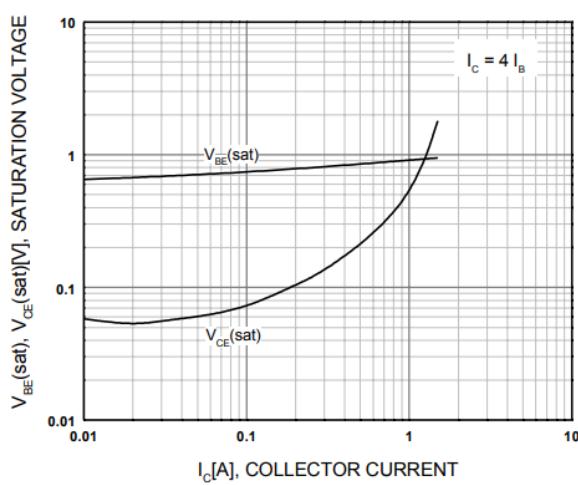
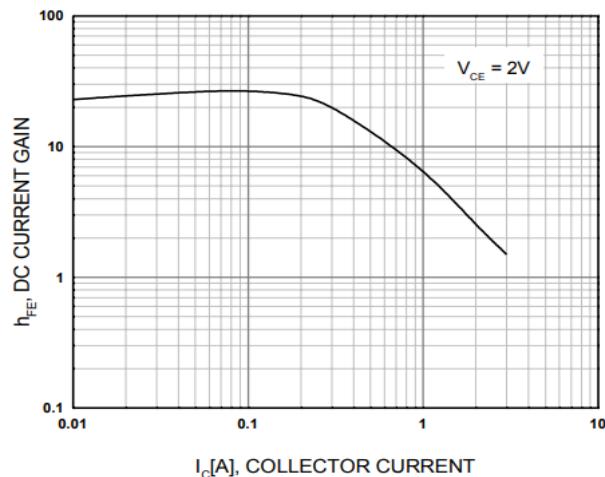
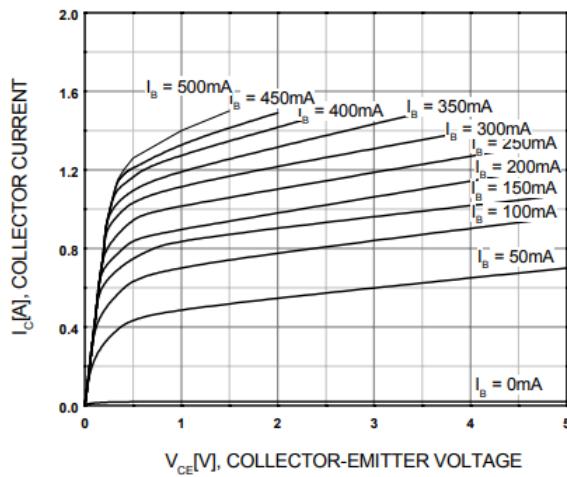
Parameter	Symbol	Value	Unit
Collector-Base Voltage	BV _{CBO}	700	V
Collector-Emitter Voltage	BV _{CEO}	480	V
Emitter-Base Voltage	BV _{EBO}	9	V
Collector Current	I _C	1.5	A
Collector Power Dissipation	P _C	1.25	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~150	°C

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV _{CBO}	I _C = 100μA, I _E = 0	700			V
Collector-emitter breakdown voltage	BV _{CEO}	I _C = 1mA, I _B = 0	480			V
Emitter-base breakdown voltage	BV _{EBO}	I _E = 100μA, I _C = 0	9			V
Collector cut-off current	I _{CBO}	V _{CB} = 700V, I _E = 0			1	mA
Collector cut-off current	I _{CEO}	V _{CE} = 400V, I _B = 0			10	mA
Emitter cut-off current	I _{EBO}	V _{EB} = 9V, I _C = 0			1	mA
DC current gain	h _{FE}	V _{CE} = 2V, I _C = 0.5A	8		40	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 0.5A, I _B = 0.1A I _C = 1A, I _B = 0.25A			0.5 1.0	V
Base -emitter saturation voltage	V _{BE(sat)}	I _C = 0.5A, I _B = 0.1A I _C = 1A, I _B = 0.25A			1.0 1.2	V
Transition frequency	f _T	V _{CE} = 10V, I _B = 0.1A	8			MHz

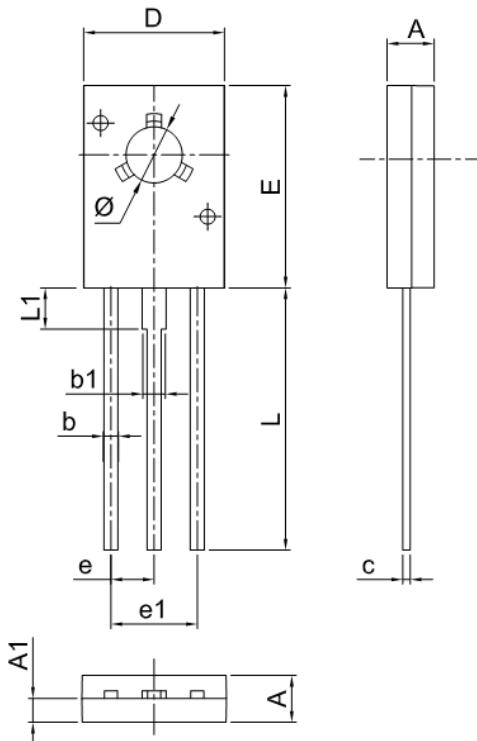


Typical Characteristics





Package Dimensions



Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	2.40	2.80	0.094	0.110
A1	1.00	1.40	0.039	0.055
b	0.66	0.86	0.026	0.034
b1	1.17	1.37	0.046	0.054
c	0.40	0.60	0.016	0.024
D	7.30	7.70	0.287	0.303
E	10.60	11.00	0.417	0.433
e	2.25	2.33	0.089	0.092
e1	4.50	4.66	0.177	0.183
L	14.00	15.00	0.551	0.591
L1	1.90	2.50	0.075	0.098
Φ	3.10	3.30	0.122	0.130

Package	Packing	Quantity	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-126	Bulk	200pcs/Bag	3000pcs	245×170×100	30,000pcs	525×375×270
TO-126	Tube	60pcs/Tube	2400pcs	560×178×35	24,000pcs	585×385×220