



1.Features

High speed Switching
Case:TO-126



2.Mechanical Data

- Case:Molded Plastic,TO-126
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking: marked on body.
- Mounting Position : Any.

3. Maximum Ratings and Electrical Characteristics

Rating at 25°C Cambient temperature unless otherwise specified

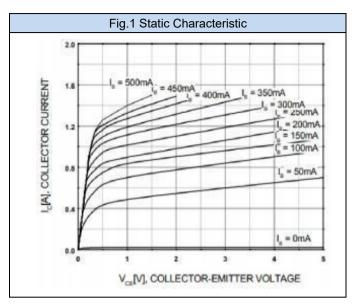
Parameters	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	700	V
Collector-Emitter Voltage	V_{CEO}	480	V
Emitter-Base Voltage	V_{EBO}	9	V
Collector Current -Continuous	I _c	1.5	Α
Power Dissipation T _A =25℃	P _C	1.25	W
Junction Temperature	T _j	150	°C
Operating and Storage Temperature Range	T _{stg}	-55 to +150	°C

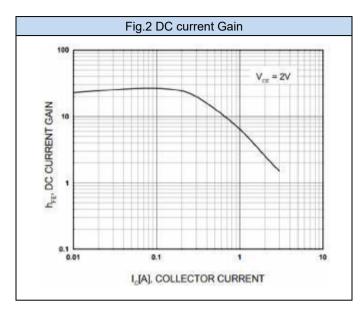
4.Electrical Characteristics (TA=25°C unless otherwise noted)

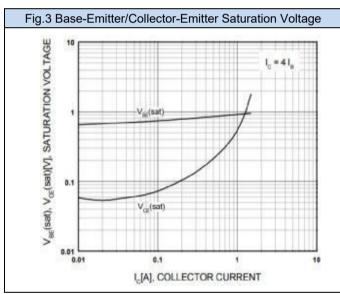
Parameters	Symbol	Cindition	Min	TYP	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_{C} = 100 \mu A, I_{E} = 0$	700	-	-	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 1 \text{mA}, I_B = 0$	420	-	1	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_{E} = 100 μ A, I_{C} = 0	9	-	1	V
Collector cut-off current	I _{CBO}	$V_{CB} = 700V, I_{E} = 0$	-	-	1	mA
Collector cut-off current	I _{CEO}	$V_{CB} = 400V, I_{B} = 0$	-	-	10	mA
Emitter cut-off current	I _{EBO}	$V_{EB} = 9V, I_{B} = 0$	-	-	1	mA
DC current gain	h _{FE}	$V_{CE} = 2V, I_{C} = 0.5A$	8	-	40	-
Collector-emitter saturation voltage	\/	$I_{\rm C}$ = 0.5A, $I_{\rm B}$ = 0.1A	-	-	0.5	V
	V _{CE(sat)}	$I_{C} = 1A, I_{B} = 0.25A$	-	-	1	V
Base-emitter saturation voltage	V	$I_{\rm C}$ = 0.5A, $I_{\rm B}$ = 0.1A	-	-	1	V
	V _{BE(sat)}	$I_{C} = 1A, I_{B} = 0.25A$	-	-	1.2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Transition frequency	f _T	$V_{CE} = 10V, I_{B} = 0.1A$	8	-	-	MHz

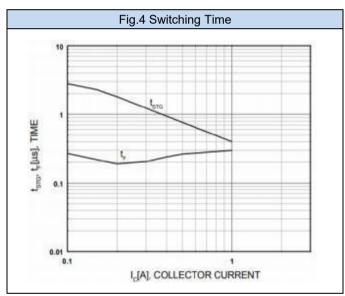


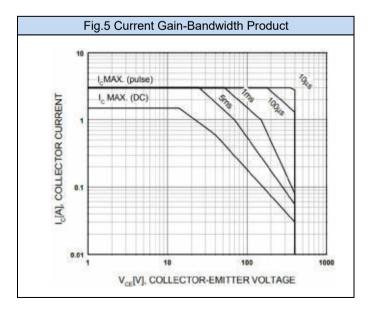
5. Rating And Characteristic Curves

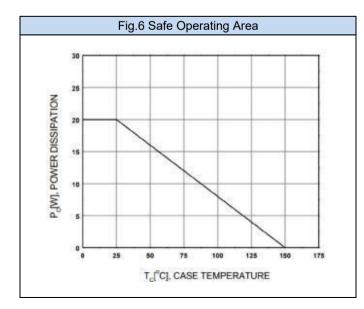






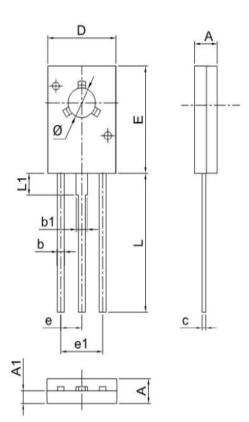






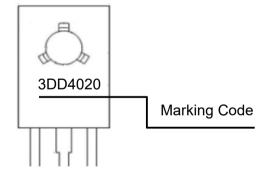


6.Dimensions



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

7. Part Marking System



8. Package Information

Part Number	Package	Quantity(pcs)
3DD4020	TO126	4000



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