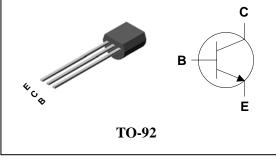


Features

- Extremely low collector-to-emitter saturation voltage $(V_{CE(SAT)} = 0.2V \text{ Typ. } @I_C/I_B = 1A/50\text{mA})$
- Suitable for low voltage large current drivers
- Complementary pair with DP200
- Switching Application

PIN Connection



Ordering Information

Type NO.	Marking	Package Code	
DN200	DN200	TO-92	

Absolute maximum ratings		(Ta=25°C)		
Characteristic	Symbol	Ratings	Unit	
Collector-Base voltage	V _{CBO}	15	V	
Collector-Emitter voltage	V _{CEO}	12	V	
Emitter-Base voltage	V _{EBO}	5	V	
Collector current	Ι _C	2	А	
Collector dissipation	Pc	625	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55~150	°C	

Electrical Characteristics

Electrical Characteristics (Ta=25°C						
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	BV _{CBO}	$I_{C} = 50 \mu A$, $I_{E} = 0$	15	-	-	V
Collector-Emitter breakdown voltage	BV_{CEO}	$I_{C}=1mA$, $I_{B}=0$	12	-	-	V
Emitter-Base breakdown voltage	BV_{EBO}	$I_{E} = 50 \mu A, I_{C} = 0$	5	-	-	V
Collector cut-off current	I _{CBO}	$V_{CB} = 12V, I_{E} = 0$	-	-	0.1	μA
Emitter cut-off current	I _{EBO}	V_{EB} =5V, I_{C} =0	-	-	0.1	μA
DC current gain	h_{FE1}	$V_{CE} = 1V$, $I_{C} = 100mA$	200	-	450	-
	h _{FE2}	V_{CE} =1V, I_{C} =2A	40	-	-	-
Collector-Emitter saturation voltage	V _{CE(sat)}	$I_{C}=1A$, $I_{B}=50mA$	-	-	0.3	V
Base-Emitter saturation voltage	V _{BE(sat)}	$I_{C}=1A$, $I_{B}=50mA$	-	-	1.2	V
Transition frequency	f _T	V_{CE} =5V, I_{C} =50mA	-	260	-	MHz
Collector output capacitance	C _{ob}	V_{CB} =10V, I_{E} =0, f=1MHz	-	5	-	pF

DN200

Electrical Characteristic Curves



Fig. 2 $I_C - V_{BE}$

1.4

1.2

1.0

0.8

0.6

0.4

0.2

0

0 0.2

0.4

0.6

0.8

Base-Emitter voltage VBE [V]

1.0

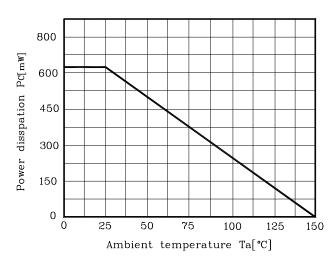
1.2

1.4 1.6

Collector current Ic [A]

Ta=25°C

VCE=1V





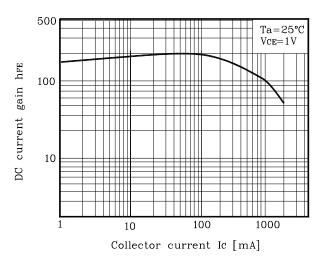
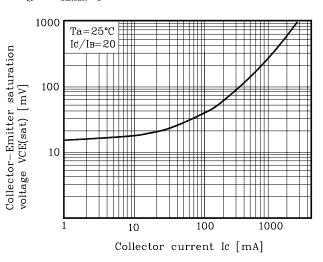
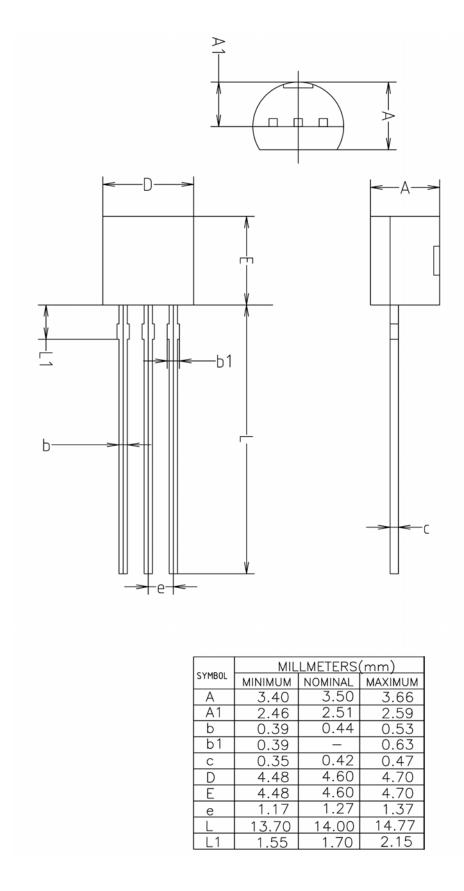


Fig. 4 V_{CE(sat)}-I_C



DN200

Outline Dimension



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

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