

RoHS
Compliant



Features

- Excellent Safe Operating Area
- High DC Current Gain-hFE=15(Min)@Ic = -8A
- Low Saturation Voltage- : V_{CE(SAT)}= -1.4V(Max)@ Ic = -8A
- Complement to Type 2N3773

Applications

Designed for high power audio ,disk head positioners and other linear applications, which can also be used in power switching circuits such as relay or solenoid drivers, DC-DC converters or inverters.

Maximum Ratings

Parameter	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	-140	V
Collector-Emitter Voltage	V _{CEx}	-160	
Collector-Base Voltage	V _{CB0}	160	
Emitter-Base Voltage	V _{EBO}	-7	
Collector Current-Continuous	I _C	-16	A
Collector Current-Peak	I _{CP}	-30	
Base Current- Continuous	I _B	-4	
Total Power Dissipation @T _c = 25°C	P _D	150	Watts
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-65 to +150	

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Thermal Resistance Junction to Case	R _{th j-c}	1.17	°C/W

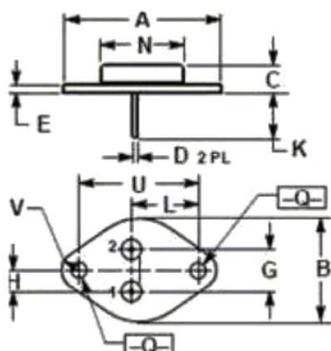
Electrical Characteristics (T_c = 25°C unless otherwise specified)

Characteristic	Symbol	Min.	Max.	Unit
Off Characteristics				
Collector-Emitter Sustaining Voltage (I _C = 50mA, I _B =0)	V _{CEO(SUS)}	-140	-	V
Collector Cut-off Current (V _{CE} = 120V, I _B =0)	I _{CEO}		0.1	mA
Emitter Cut-off Current V _{EB} =7V, I _C =0	I _{EBO}		-5	

Bipolar Transistor

Characteristic	Symbol	Min.	Max.	Unit
On Characteristics				
DC Current Gain ($I_c = 8A, V_{CE} = 4A$) ($I_c = 16A, V_{CE} = 4A$)	h_{FE}	15 5	85	
Collector-Emitter Saturation Voltage ($I_c = 8A, I_B = 0.8A$) ($I_c = 16A, I_B = 3.2A$)	$V_{CE(SAT)}$	-	1.4 -4	V
Base-Emitter on Voltage ($I_c = 8A, V_{CE} = -4V$)	$V_{BE(ON)}$	-	-2.2	

Dimensions



- PIN 1. Base
- 2. Emitter
- Collector (case)

Dim	Min.	Max.
A	39	
B	25.3	26.67
C	7.8	8.5
D	0.9	1.1
E	1.4	1.6
G	10.92	
H	5.46	
K	11.3	13.5
L	16.75	17.05
N	19.4	19.62
O	4	4.2
U	30	30.2
V	4.3	4.5

Part Number Table

Description	Part Number
Power Transistor, Silicon, PNP, 16A, 140V, TO-3	2N6609H

Dimensions : Millimetres

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 sg.element14.com/b/multicomp-pro