

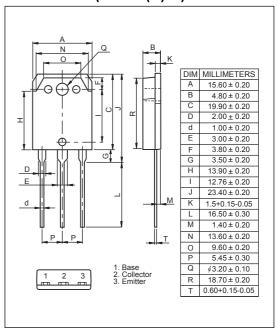
HIGH POWER AMPLIFIER DARLINGTON TRANSISTOR

KTD1630G is designed to suit for audio amplifier output stage. It has good quality sound with complementary Item.

FEATURES

- Complementary to KTB2630G
- High power Amplifier for 100W Audio
- High DC Current Gain $h_{EE} = 6,500 \sim 30,000 \ (V_{CE} = 4V, I_{C} = 7A)$
- Wide SOA

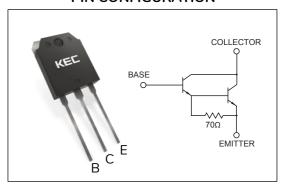
PACKAGE DIMENSION (TO-3P(N)-E)



APPLICATIONS

- Audio amplifier output stage
- Series Regulator
- General Purpose

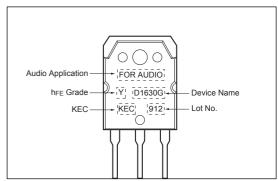
PIN CONFIGURATION



ORDERING INFORMATION

PART NUMBER	QTY per tube	Carton box
KTD1630G	30	1,800

MARKING CODE



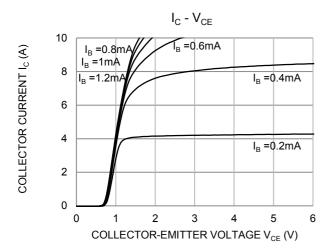
MAXIMUM RATING (Ta=25℃)

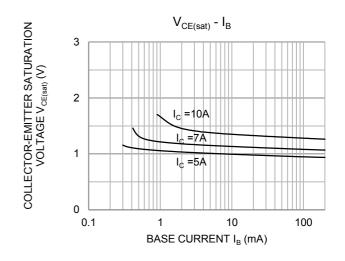
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	160	V
Collector-Emitter Voltage	V _{CEO}	150	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I _C	10	А
Base Current	I _B	1	А
Collector Power Dissipation (T _C =25 °C)	Pc	100	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55∼150	°C

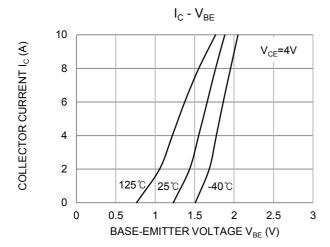
ELECTRICAL CHARACTERISTICS (Ta=25℃)

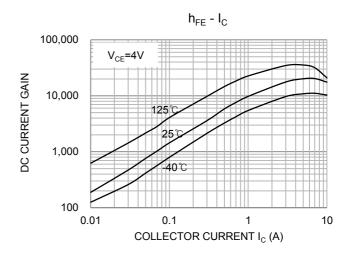
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =160v, I _E =0	_	-	100	μΑ
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	_		100	μΑ
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =30mA I _B =0	150		-	٧
DC Current Gain	h _{FE} (Note)	V _{CE} =4V, I _C =7A	6,500	-	30,000	-
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =7A, I _B =7mA	-	-	2.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I _C =7A, I _B =7mA	-	-	3.0	٧
Transition Frequency	f _T	V _{CE} =12V, I _C =2A	_	55	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz, I _E =0	-	95	-	pF
Thermal Resistance	R _{th(j-c)}	Junction to case	-	-	1.25	%\W

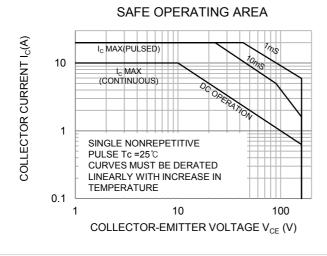
Note : h_{FE} Classification P: 6,500 ~ 20,000 Y : 15,000 ~ 30,000

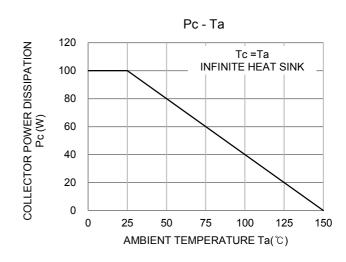




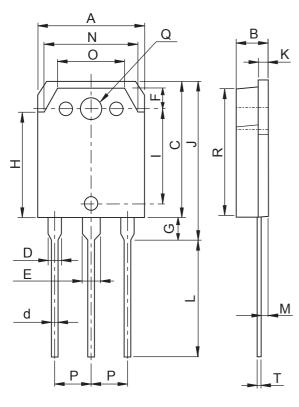








PACKAGE INFORMATION (TO-3P(N)-E)



1	2	3

- 1. Base 2. Collector 3. Emitter

DIM	MILLIMETERS
Α	15.60 ± 0.20
В	4.80 ± 0.20
С	19.90 ± 0.20
D	2.00 ± 0.20
d	1.00 ± 0.20
Е	3.00 ± 0.20
F	3.80 ± 0.20
G	3.50 ± 0.20
Н	13.90 ± 0.20
ı	12.76 ± 0.20
J	23.40 ± 0.20
K	1.5+0.15-0.05
L	16.50 ± 0.30
М	1.40 ± 0.20
N	13.60 ± 0.20
0	9.60 ± 0.20
Р	5.45 ± 0.30
Q	ϕ 3.20 ± 0.10
R	18.70 ± 0.20
Т	0.60+0.15-0.05

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- 1. The products described in this data are intended to be used in general-purpose electronic equipment (Office equipment, telecommunication equipment, measuring equipment, home appliances)
- 2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
- 3. On designing your application, please use product within the ranges guaranteed by KEC for maximum rating, operating supply voltage range, heat radiation characteristics and other characteristics. User shall be responsible for failure or damage when used beyond the guaranteed ranges.
- 4. The technical information described in this data is limited to showing representative characteristics and applied circuit examples of the products and it does not constitute the warranting of industrial property, the granting of relative rights, or the granting of any license.
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For additional information, please contact your local Sales Representative.

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