

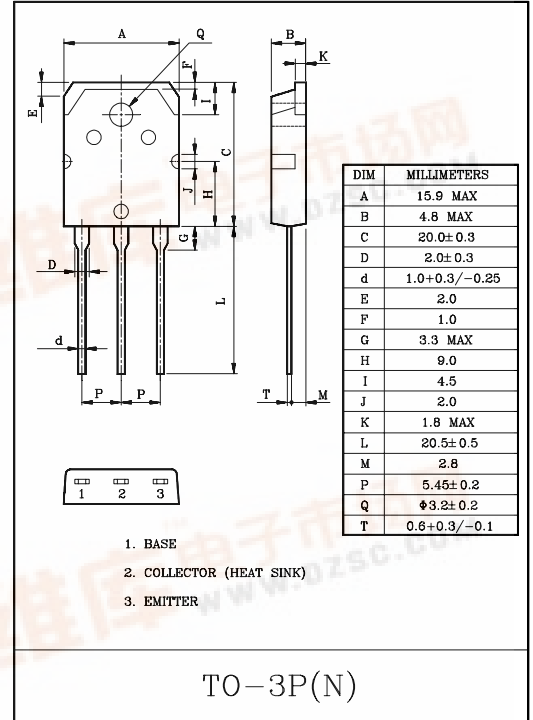
HIGH POWER AMPLIFIER
DARLINGTON TRANSISTOR.

FEATURES

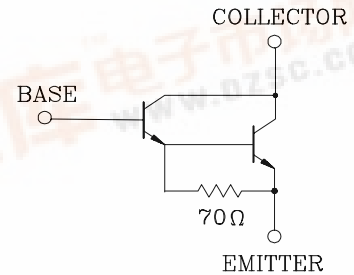
- Complementary to KTB2510.
- Recommended for 60W Audio Amplifier Output Stage.

MAXIMUM RATINGS (Ta=25°C)

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	A
Base Current	I _B	1	A
Collector Power Dissipation (Tc=25°C)	P _C	100	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C



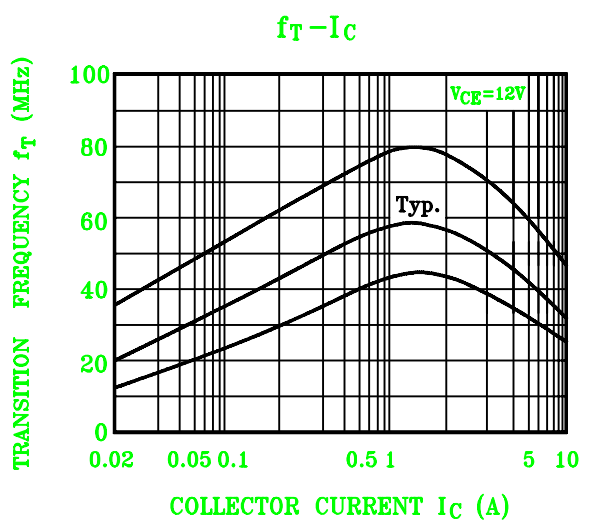
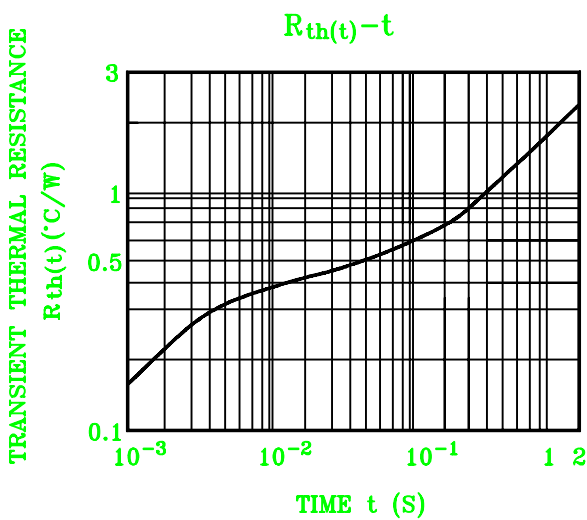
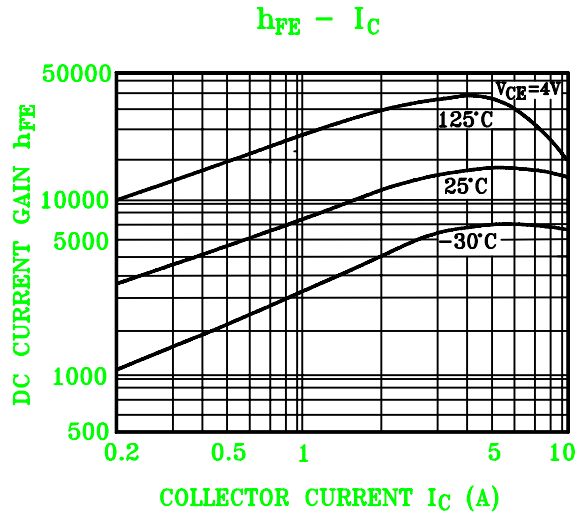
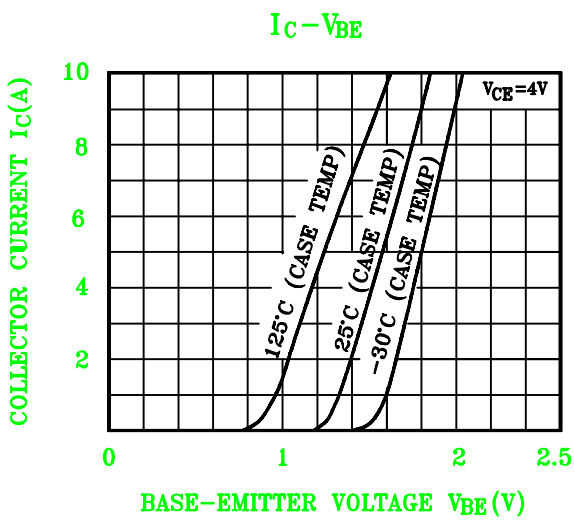
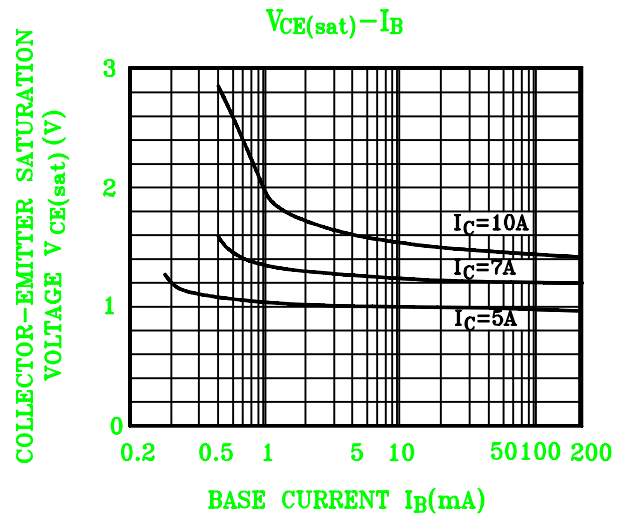
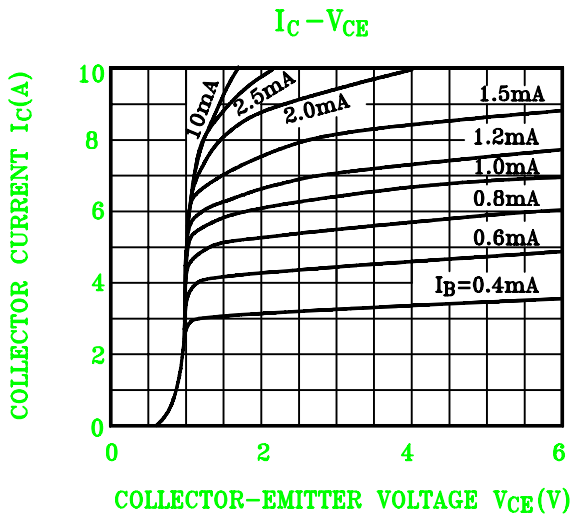
EQUIVALENT CIRCUIT



ELECTRICAL CHARACTERISTICS (Ta=25°C)

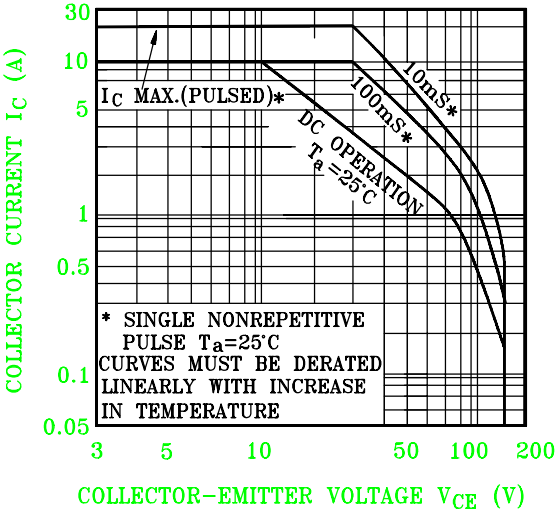
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =160V	-	-	100	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V	-	-	100	μA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =30mA	150	-	-	V
DC Current Gain	h _{FE}	V _{CE} =4V, I _C =7A	5000	-	-	
Collector-Emitter 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	V
Transition Frequency	f _T	V _{CE} =12V, I _C =2A	-	50	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz	-	230	-	pF

KTD1510



KTD1510

SAFE OPERATING AREA



$P_C - T_a$

