

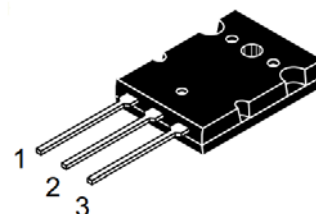
FEATURES

- High collector voltage: $V_{CEO}=230V$ (min)
- Complementary to 1943
- Recommended for 100-W high-fidelity audio frequency amplifier output
- RoHS product

APPLICATIONS

- Power Amplifier Applications

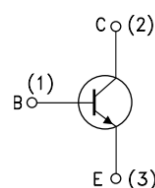
TO-3PL



1 Base 2 Collector (heat Sink) 3 Emitter

ABSOLUTE RATINGS ($T_c=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector- Base Voltage	V_{CBO}	230	V
Collector- Emitter Voltage	V_{CEO}	230	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	15	A
Base Current	I_B	1.5	A
Collector Dissipation($T_c=25^{\circ}C$)	P_C	160	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature	T_{stg}	-55~150	$^{\circ}C$



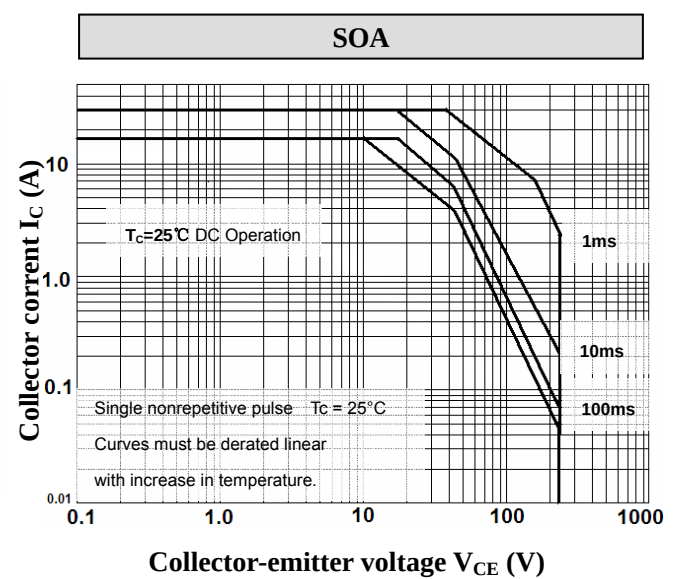
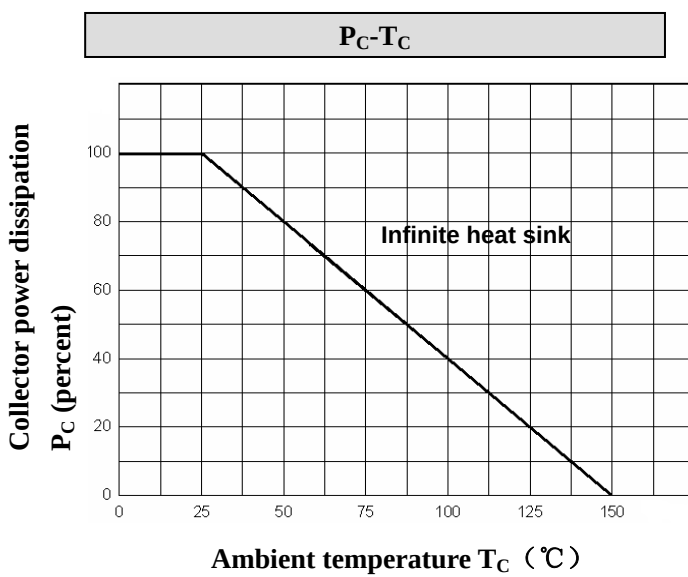
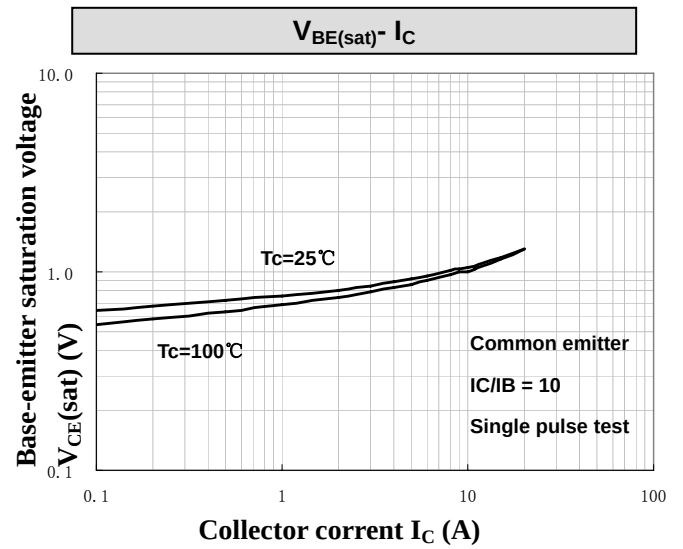
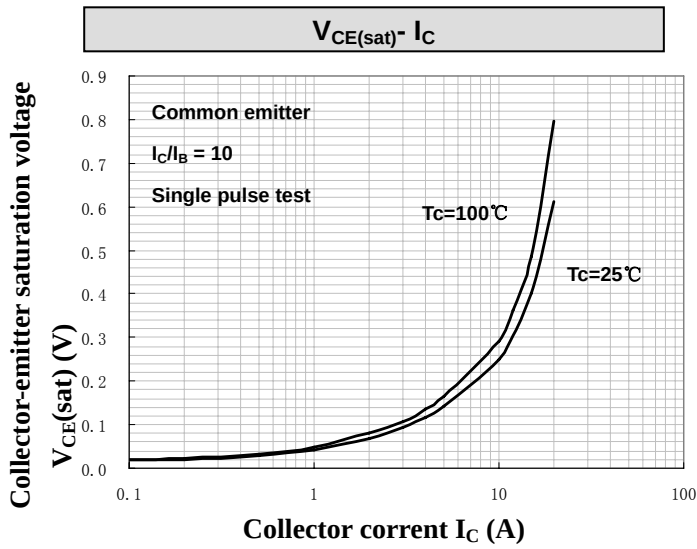
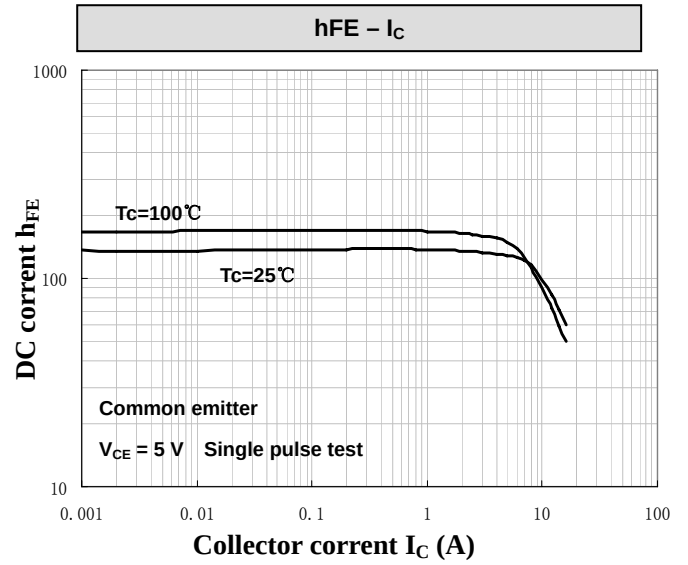
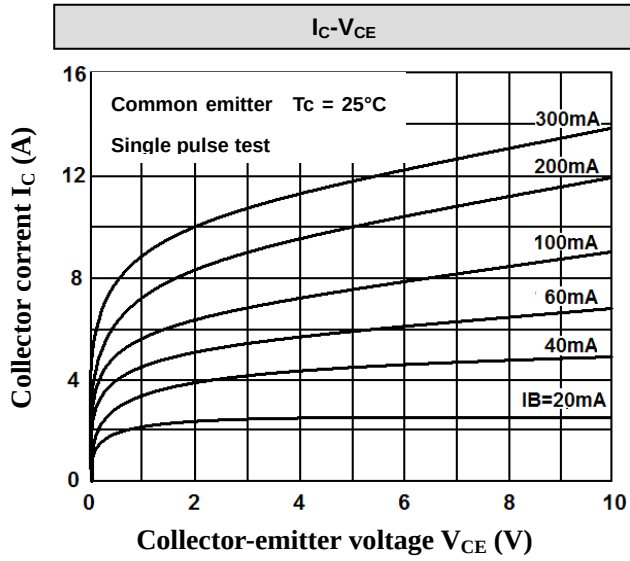
ELECTRICAL CHARACTERISTIC

Parameter	Tests conditions	Value(min)	Value(typ)	Value(max)	Unit
I_{CBO}	$V_{CB}=230V, I_E=0$	-	-	5.0	μA
I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	5.0	mA
$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	230	-	-	V
hFE	$V_{CE}=5V, I_C=1.0A$	80	-	160	-
	$V_{CE}=5V, I_C=7.0A$	35	-	-	-
$V_{CE(sat)}$	$I_C=8.0A, I_B=0.8A$	-	-	3.0	V
V_{BE}	$V_{CE}=5V, I_C=7.0A$	-	-	1.5	V
f _T	$V_{CE}=5V, I_C=1.0A$	10	-	-	MHz
C _{Ob}	$V_{CE}=10V, I_E=0, f=1MHz$	-	145	-	pF

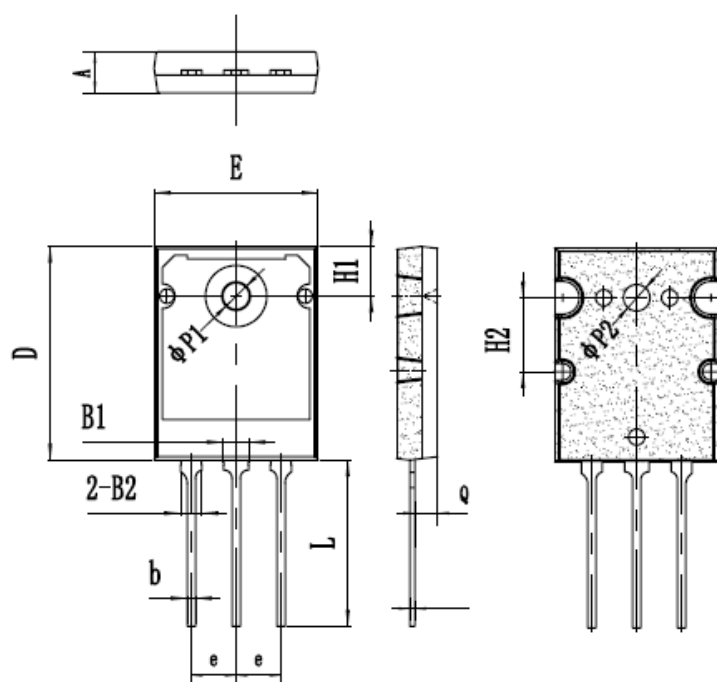
THERMAL CHARACTERISTIC

Parameter	Symbo	min	max	Unit
Thermal Resistance Junction Case	$R_{th(j-c)}$	-	0.781	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS



PACKAGE MECHANICAL DATA



SYMBOL	mm		
	MIN	NOM	MAX
A	4.90	5.00	5.10
B1	3.00	3.10	3.20
B2	2.50	2.60	2.70
b	0.95	1.00	1.05
c	0.59	0.600	0.61
D	25.90	26.00	26.10
E	19.85	19.95	20.05
e	5.40	5.45	5.50
H1	6.00	6.05	6.10
H2	8.95	9.00	9.05
L	20.00	20.20	20.40
Q	2.75	2.80	2.85
$\Phi p1$	3.45	3.50	3.55
$\Phi p2$	3.20	3.25	3.30

Unit : mm

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