

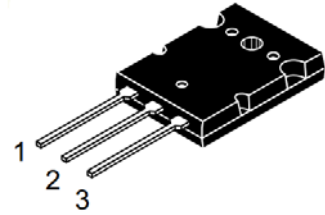
## FEATURES

- High collector voltage:  $V_{CEO} = -230V$  (min)
- Complementary to 5200
- Recommended for 100-W high-fidelity audio frequency amplifier output
- RoHS product

## APPLICATIONS

- Power Amplifier Applications

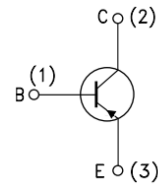
### TO-3PL



1 Base 2 Collector (heat Sink) 3 Emitter

## ABSOLUTE RATINGS (Tc=25°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(Tc=25°C)	$P_C$	160	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~150	°C



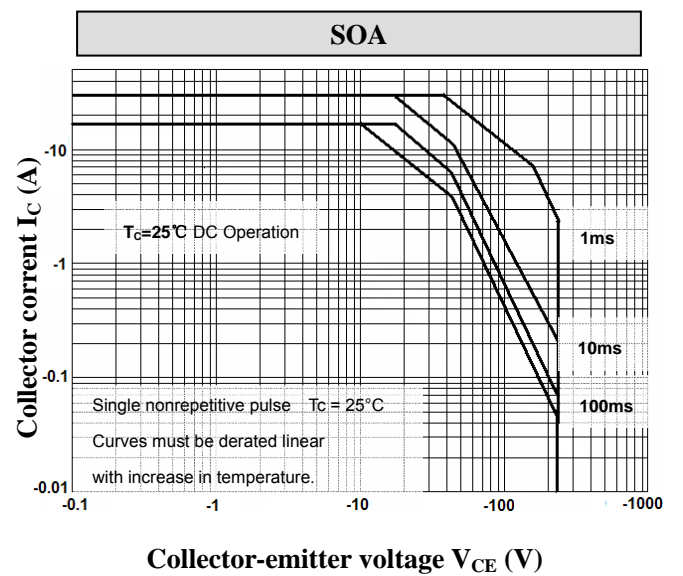
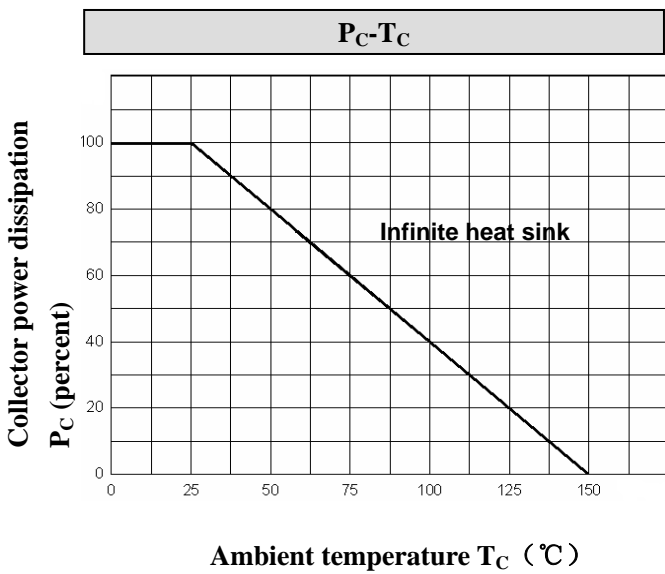
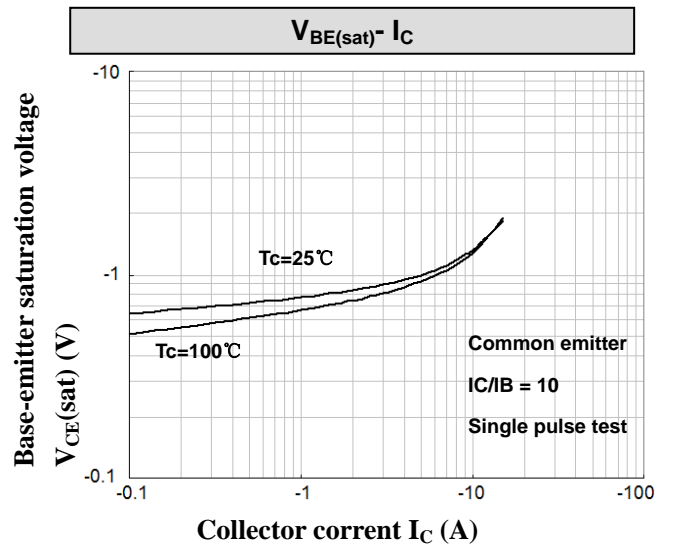
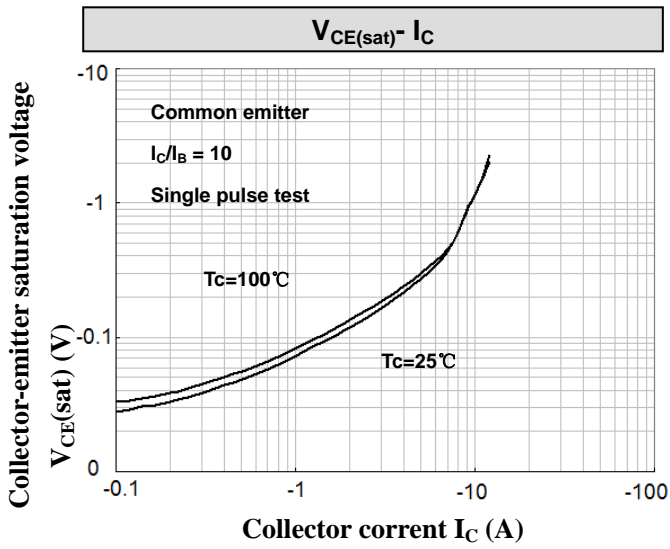
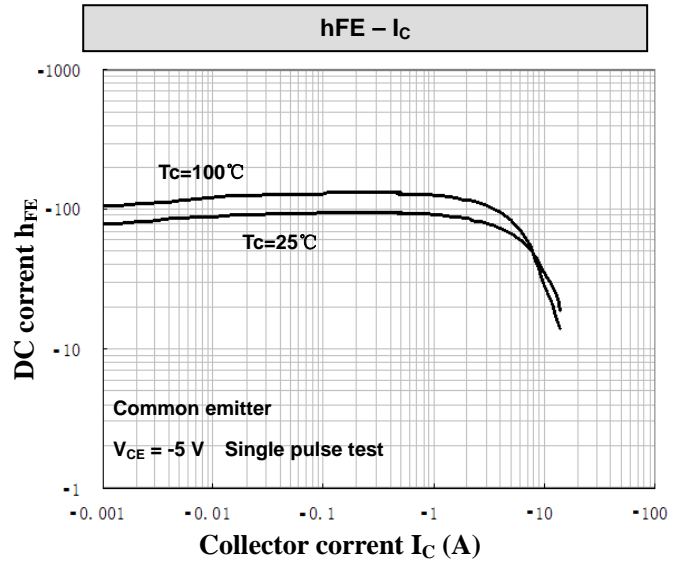
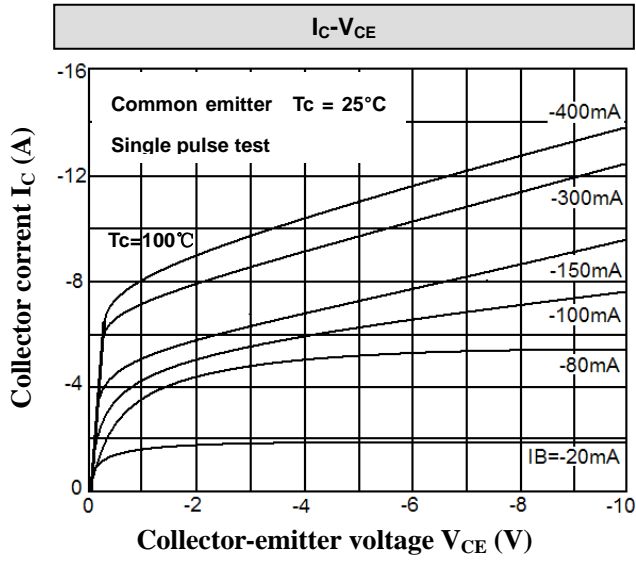
## ELECTRICAL CHARACTERISTIC

Parameter	Tests conditions	Value(min)	Value(typ)	Value(max)	Unit
$I_{CBO}$	$V_{CB} = -230V, I_E = 0$		-	-5.0	$\mu A$
$I_{EBO}$	$V_{EB} = -5V, I_C = 0$		-	-5.0	mA
$V_{(BR)CEO}$	$I_C = -50mA, I_B = 0$	-230	-	-	V
$h_{FE}$	$V_{CE} = -5V, I_C = -1.0A$	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
$C_{Ob}$	$V_{CE} = -10V, I_E = 0, f = 1MHz$		240	-	pF

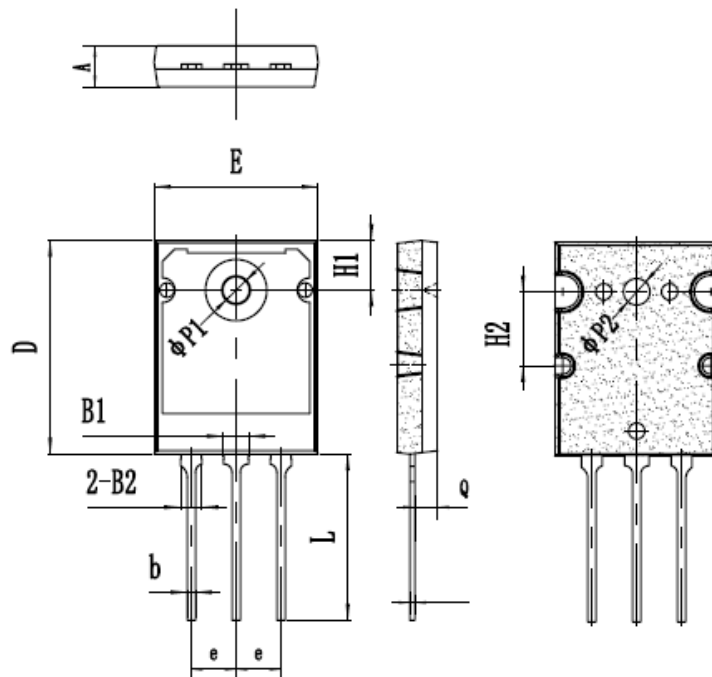
## THERMAL CHARACTERISTIC

Parameter	Symbo	min	max	Unit
Thermal Resistance Junction Case	$R_{th(j-c)}$	--	0.781	°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

## Notice

Specifications of the products displayed herein are subject to change without notice. DIYI or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in DIYI's terms and conditions of sale for such products, DIYI assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of DIYI products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify DIYI for any damages resulting from such improper use or sale.