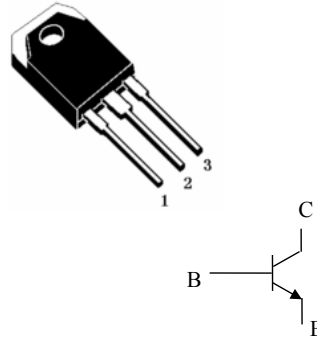


APPLICATIONS

- Energy-saving light
- Electronic ballasts
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier

FEATURES

- High breakdown voltage
- High current capability
- High switching speed
- High reliability
- RoHS product



TO-3P

ABSOLUTE RATINGS (Tc=25°C)

Parameter	Symbol	Value	Unit
Collector- Emitter Voltage (V _{BE} =0)	V _{CES}	700	V
Collector- Emitter Voltage (I _B =0)	V _{CEO}	400	V
Emitter-Base Voltage	V _{EBO}	9	V
Collector Current (DC)	I _C	12	A
Collector Current (pulse)	I _{CP}	24	A
Base Current (DC)	I _B	6	A
Base Current (pulse)	I _{BP}	12	A
Total Dissipation	P _C	120	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

Pulse Test: Pulse Width = 5.0 ms, Duty Cycle < 10%.

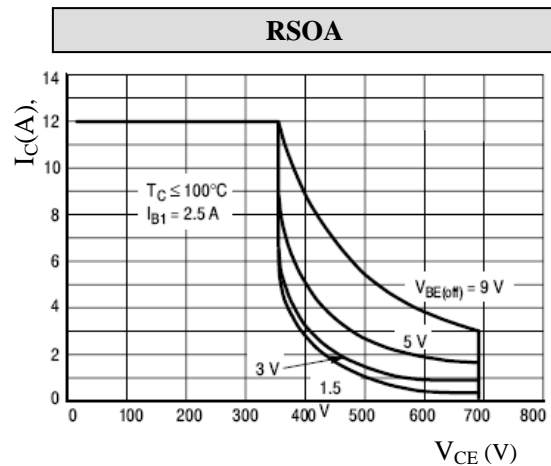
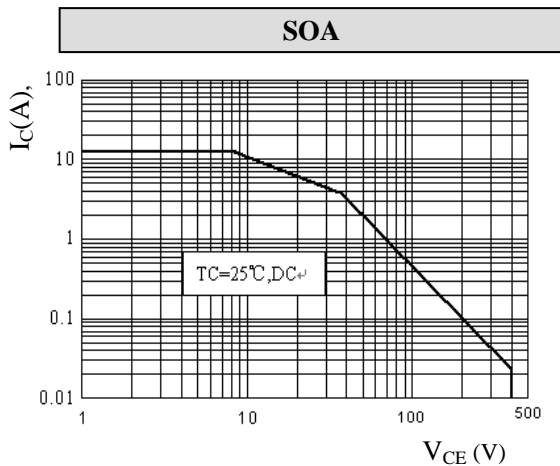
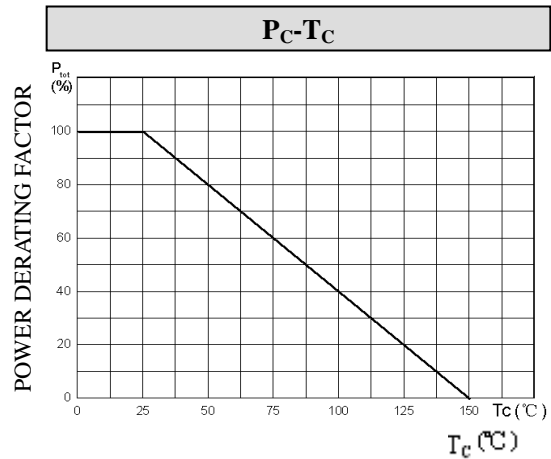
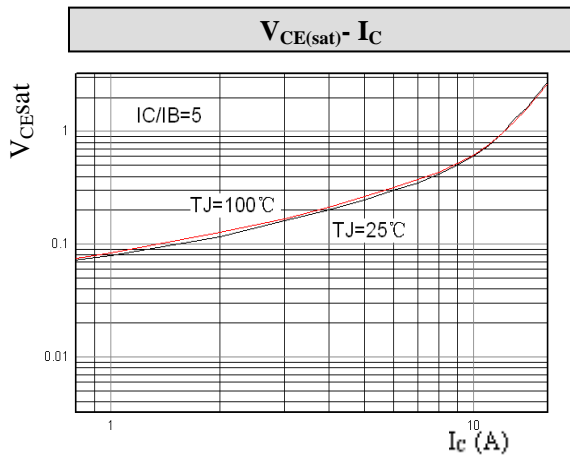
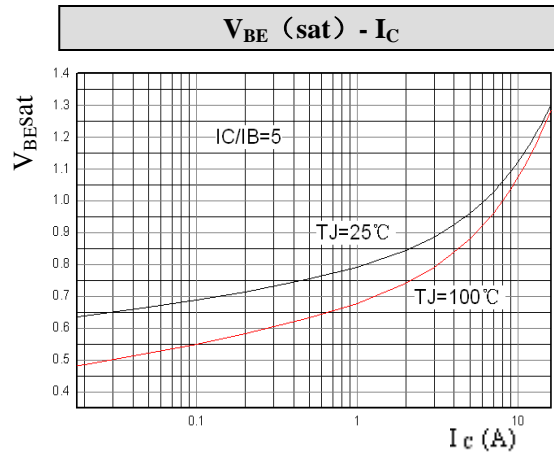
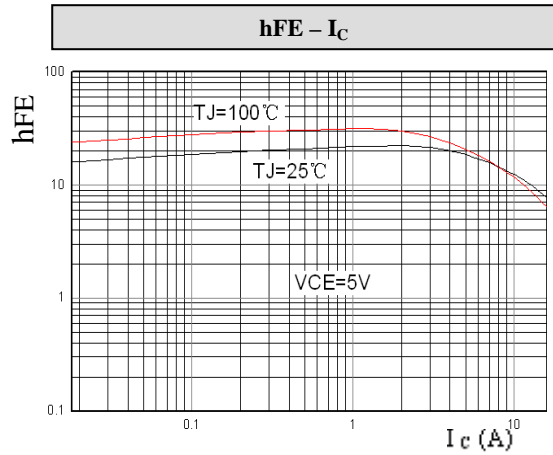
EIECTRICAL CHARACTERISTIC

Parameter	Tests conditions	Value(min)	Value(typ)	Value(max)	Unit
V(BR) _{CEO}	I _C =10mA, I _B =0	400	-	-	V
V(BR) _{CBO}	I _C =1mA, I _B =0	700	-	-	V
V(BR) _{EBO}	I _E =1mA, I _C =0	9	-	-	V
I _{CBO}	V _{CB} =700V, I _E =0	-	-	100	μA
I _{CEO}	V _{CE} =400V, I _B =0	-	-	50	μA
I _{EBO}	V _{EB} =9V, I _C =0	-	-	10	μA
Hfe(1)	V _{CE} =5V, I _C =5A	8	-	40	
Hfe(2)	V _{CE} =5V, I _C =8A	5	-	-	
V _{CE(sat)} (1)	I _C =5A, I _B =1A	-	-	1.2	V
V _{CE(sat)} (2)	I _C =8A, I _B =1.6A	-	-	1.8	V
V _{BE(sat)}	I _C =8A, I _B =1.6A	-	-	1.8	V
t _f	V _{CC} =24V I _C =5A, I _{B1} =-I _{B2} =1A	-	-	0.7	μS
t _s		-	-	3	μS
f _T	V _{CE} =10V, I _C =0.5A	4	-	-	MHz

THERMAL CHARACTERISTICS

Parameter	Symbol	Value(min)	Value(max)	Unit
Thermal resistance from junction to case	Rth(j-c)		1.05	°C/W

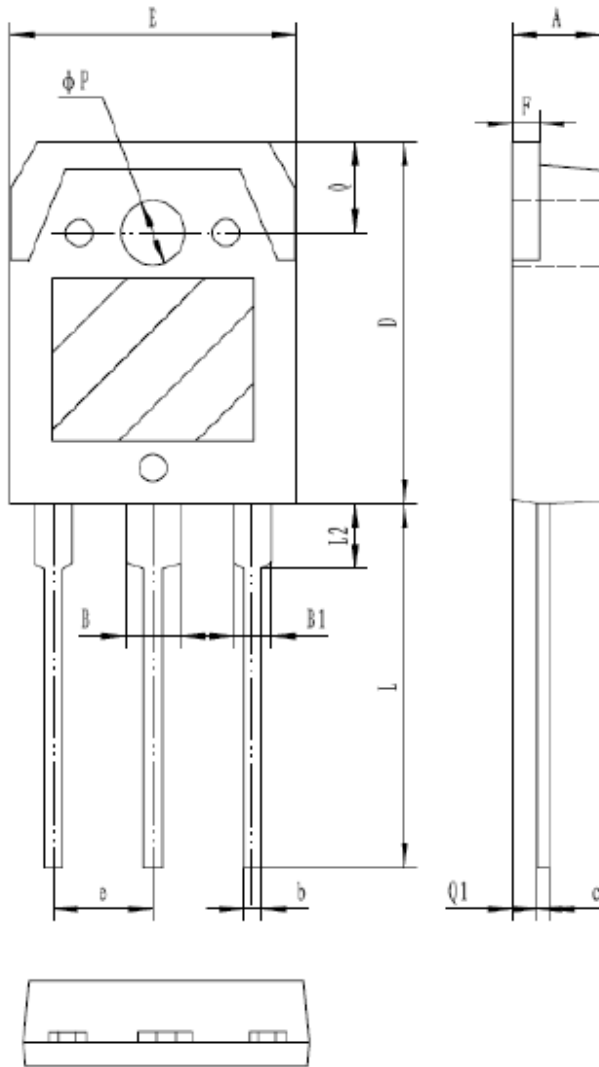
ELECTRICAL CHARACTERISTICS (curves)



PACKAGE MECHANICAL DATA

Unit : mm

TO-3PB



符号 symbol	MIN	MAX
A	4.60	5.00
B	2.90	3.20
B1	1.90	2.20
b	0.90	1.10
c	0.50	0.70
D	19.40	20.40
E	15.40	15.80
e	5.45(TYP)	
F	1.40	1.60
L	19.50	20.50
L2	3.30	3.70
Q	4.90	5.10
Q1	1.30	1.50
P	3.10	3.50