

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

ABSOLUTE RATINGS (Tc=25℃)

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



Parameter	Symbol	Value	Unit
Collector- Emitter Voltage	V_{CBO}	700	V
Collector- Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	9	V
Collector Current (DC)	I_C	5	A
Base Current (DC)	I_B	5	A
Total Dissipation	P_{tot}	100	W
Junction Temperature	T_j	150	℃
Storage Temperature	T_{stg}	-55~+150	℃

DIM	MILLIMETERS	
	MIN	MAX
A	9.9	10.3
B	2.9	3.5
C	1.15	1.45
D	12.75	13.45
E	0.55	0.75
F	3.1	3.5
G	1.25	1.45
H	Typ 2.54	
I	Typ 5.08	
J	4.55	4.75
K	2.4	2.7
L	6.35	6.75
M	15.0	16.0
N	2.75	3.15
O	0.45	0.60
P	0.7	0.9
All Dimensions in millimeter		

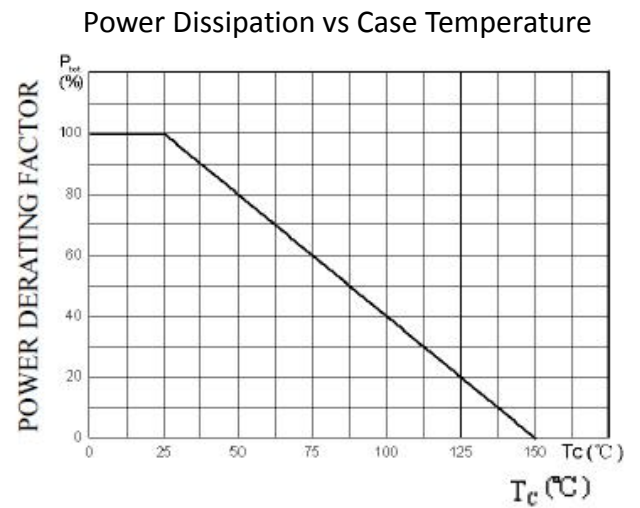
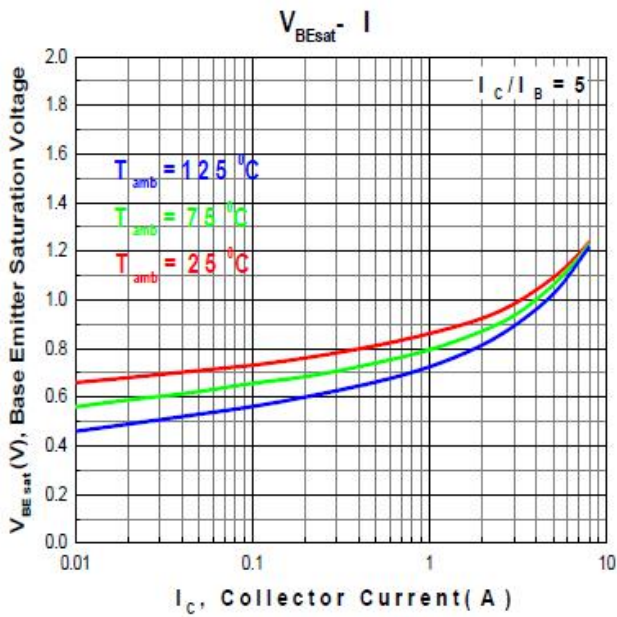
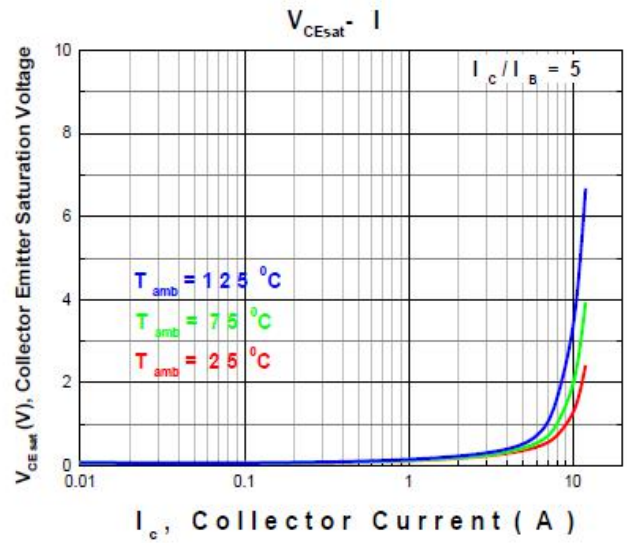
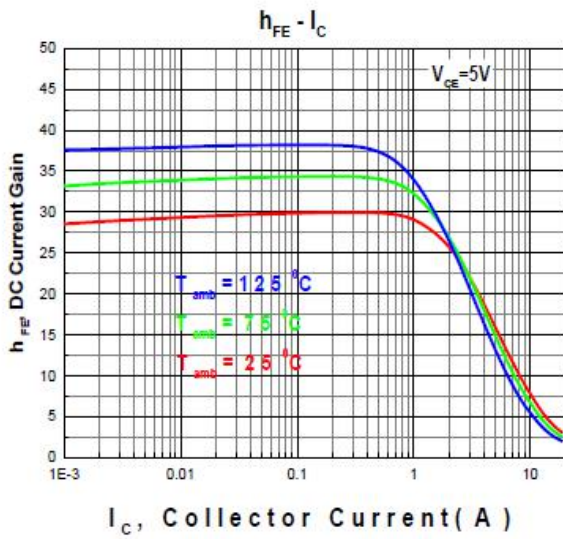
ELECTRICAL CHARACTERISTIC

Parameter	Tests conditions	Value(min)	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}	$V_{CE}=400V, I_B=0$	--	100	μA
I_{EBO}	$V_{EB}=9V, I_C=0$	--	100	μA
Hfe	$V_{CE}=5V, I_C=2A$	20	35	
$V_{CE(sat)}$	$I_C=5A, I_B=1A$	--	2	V
t_s	$I_C=500mA$	2	6	μS
f_T	$V_{CE}=5V, I_C=1A$	4	--	MHz

Thermal Resistance

Symbol	Parameter	MAX.	Units	Test Conditions
$R_{\theta JC}$	Junction-to-Case	1.56	℃/W	Water cooled heatsink, P_D adjusted for a peak junction temperature of +150℃.

Characteristics Curve



Safe Operation Area(DC)

