

APPLICATIONS

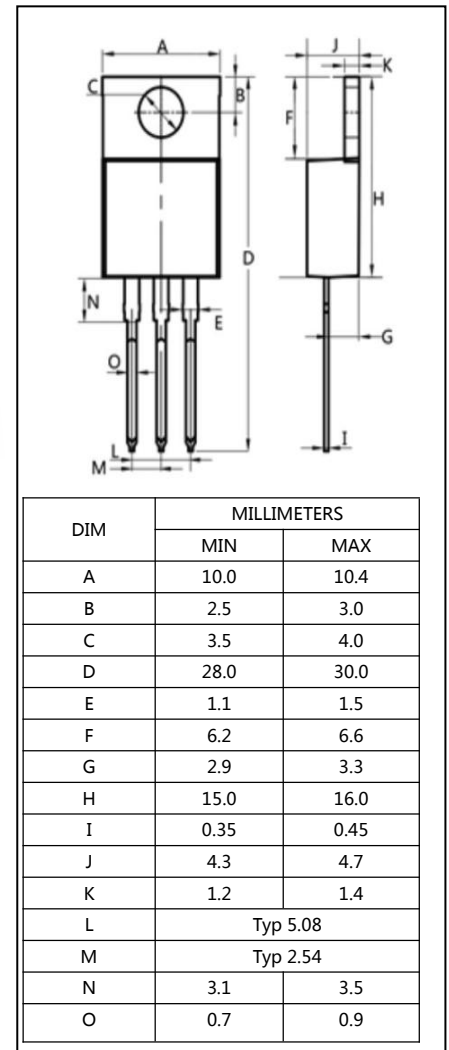
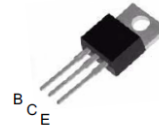
- Energy-saving light
- Electronic ballasts
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier

FEATURES

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

ABSOLUTE RATINGS (Tc=25°C)

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	8	A
Base Current (DC)	I_B	8	A
Total Dissipation	P_{tot}	100	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~+150	°C

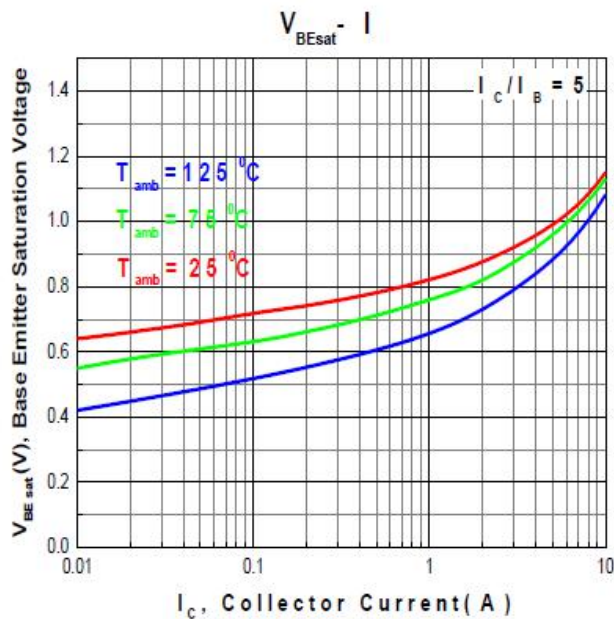
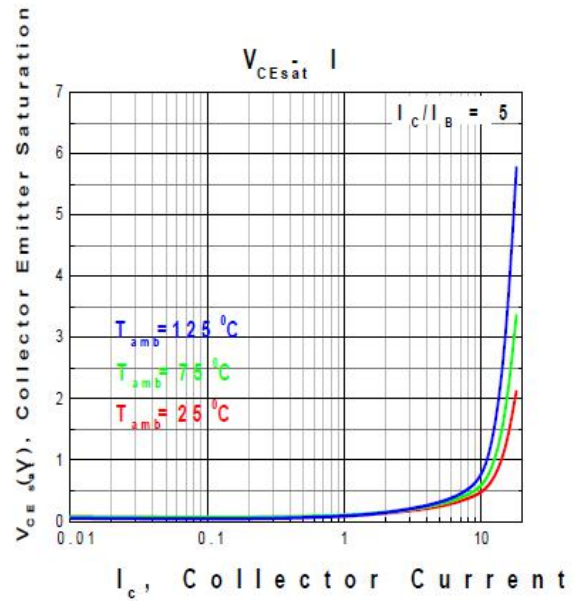
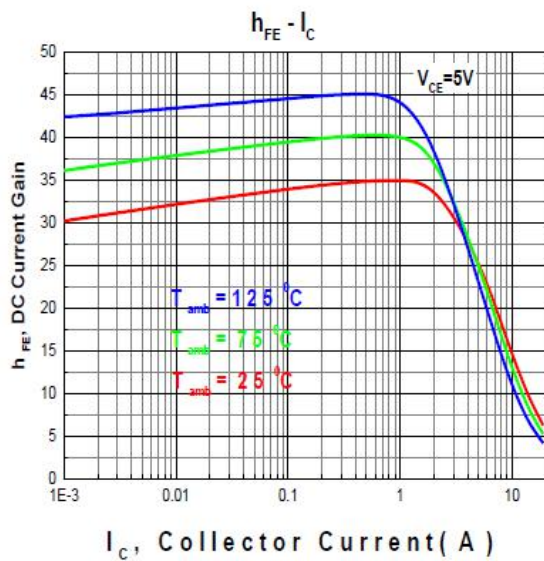
ELECTRICAL CHARACTERISTIC

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	$V_{CE}=5V, I_C=5A$	20	35	
$V_{CE(sat)}$	$I_C=5A, I_B=1A$	-	1	V
t_s	$I_C=500mA$	2	10	μS
f_T	$V_{CE}=10V, I_C=0.5A$	4	-	MHz

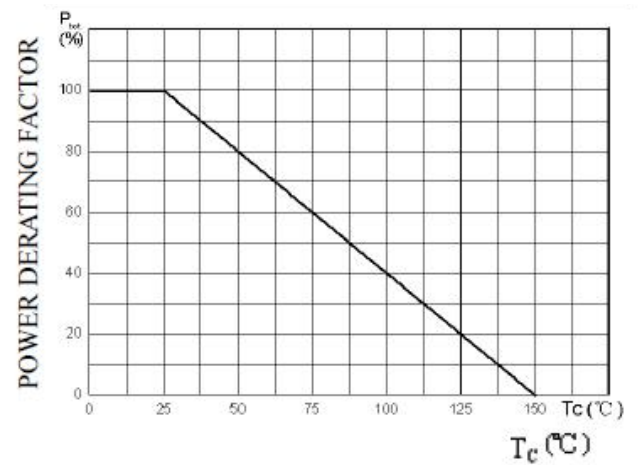
Thermal Resistance

Symbol	Parameter	MAX.	Units	Test Conditions
$R_{\theta JC}$	Junction-to-Case	1.25	°C/W	Water cooled heatsink, P_D adjusted for a peak junction temperature of +150°C.

Characteristics Curve



Power Dissipation vs Case Temperature



Safe Operation Area(DC)

