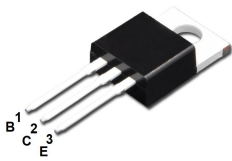
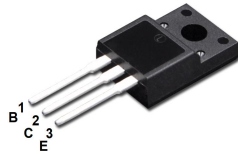


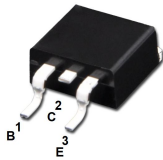
NPN Silicon Epitaxial Planar Transistor



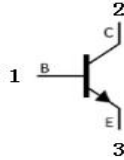
TO-220AB



TO-220F



TO-263



1.Base,2.Collector,3. Emitter

FEATURES

- High voltage
- High speed switching


**RoHS
COMPLIANT**

APPLICATIONS

- ELECTRONIC TRANSFORMER
- SWITCH MODE POWER SUPPLY

MECHANICAL DATA

- **Case:** Molded plastic
- **Polarity:** As marked
- **Mounting Position:** Any
- **Molded Plastic:** UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275°C maximum, 10s per JESD 22-B106

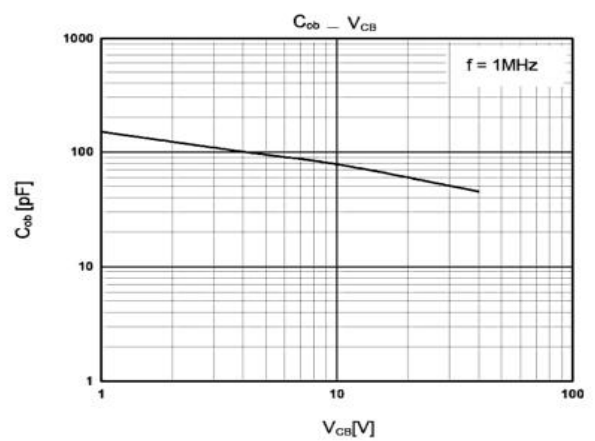
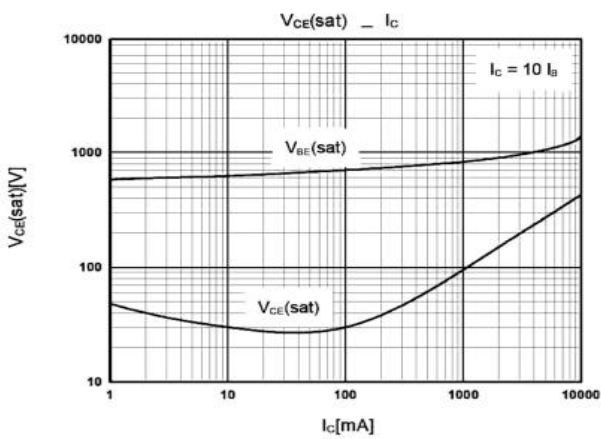
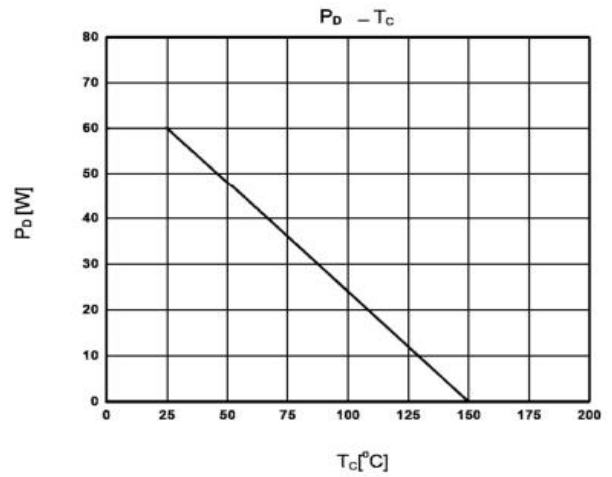
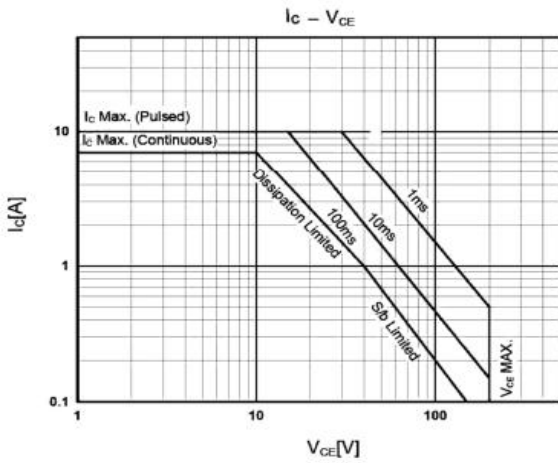
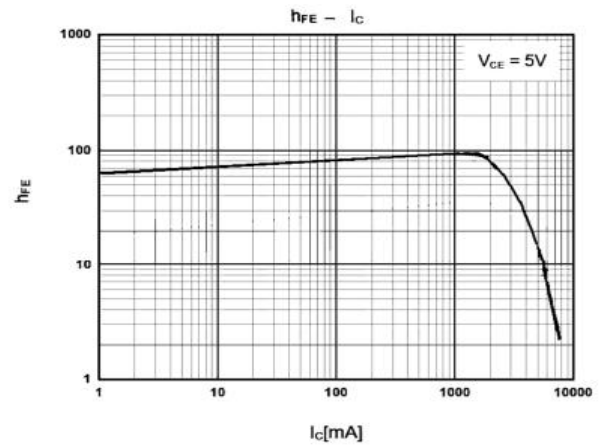
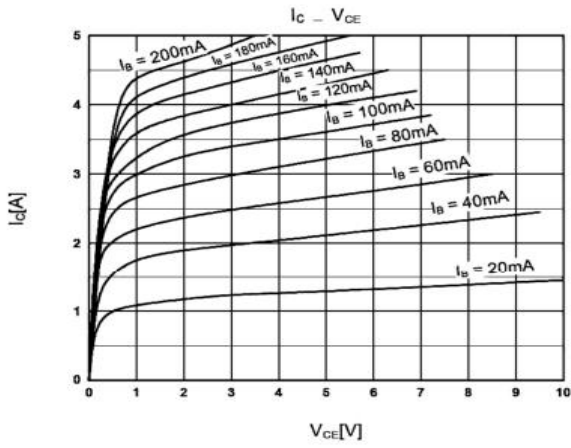
Maximum Ratings at Ta=25°C unless otherwise specified

Characteristics	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	400	V
Collector Emitter Voltage	V_{CEO}	200	V
Emitter Base Voltage	V_{EBO}	6	V
Collector Current	I_C	7	A
Collector Peak Current Superimposed on Rated Load (JEDEC method)	I_{CP}	10	A
Base Current Superimposed on Rated Load (JEDEC method)	I_B	4	A
Power Dissipation (Tc = 25 OC) Superimposed on Rated Load (JEDEC method)	P_{tot}	60	W
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics(Ta=25°C)

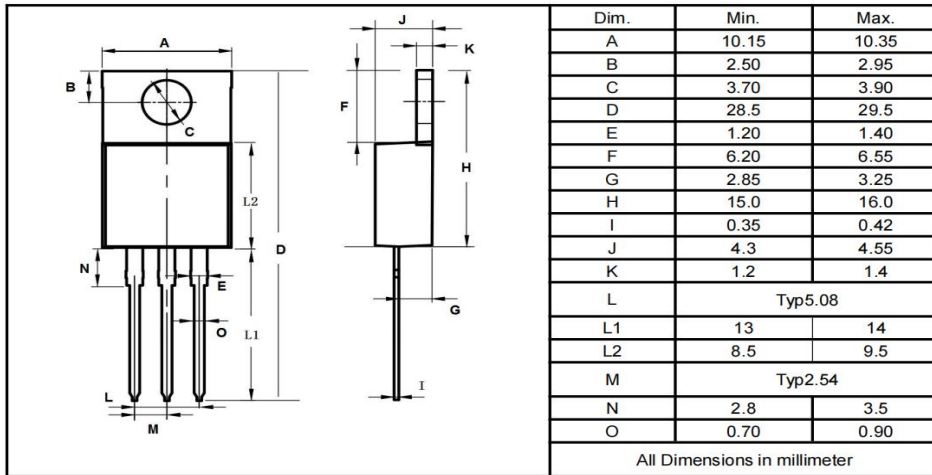
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 5\text{ V}$, $I_C = 2\text{ A}$	h_{FE}	60	-	100	-
Collector Base Cutoff Current at $V_{CB} = 400\text{ V}$	I_{CBO}	-	-	10	μA
Collector Emitter Cutoff Current at $V_{CE} = 200\text{ V}$	I_{CEO}	-	-	50	μA
Emitter Base Cutoff Current at $V_{EB} = 6\text{ V}$	I_{EBO}	-	-	10	μA
Collector Emitter Saturation Voltage at $I_C = 5\text{ A}$, $I_B = 0.5\text{ A}$	$V_{CE(sat)}$	-	-	1	V
Base Emitter Saturation Voltage at $I_C = 5\text{ A}$, $I_B = 0.5\text{ A}$	$V_{BE(sat)}$	-	-	1.2	V
Transition Frequency at $V_{CE} = 10\text{ V}$, $I_C = 0.5\text{ A}$	f_T	10	-	-	MHZ
Turn-Off Time at $I_C = 5\text{ A}$, $I_B = 0.5\text{ A}$	t_{off}	-	-	0.75	μs

RATINGS AND CHARACTERISTIC CURVES

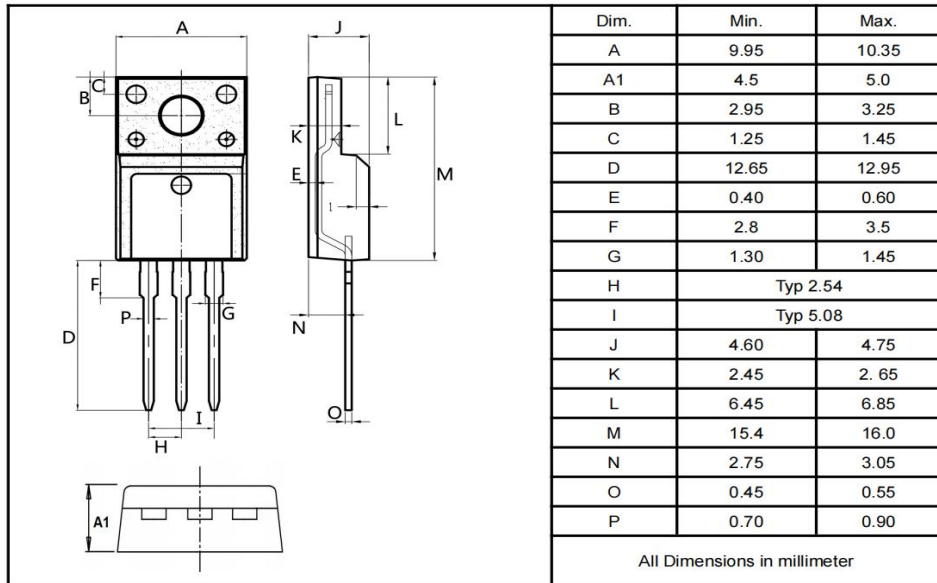


Package Outline Dimensions millimeters

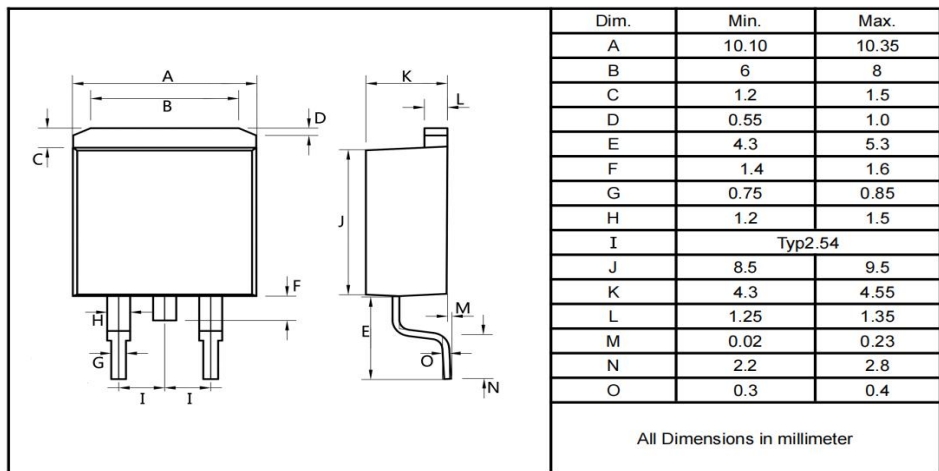
TO-220AB



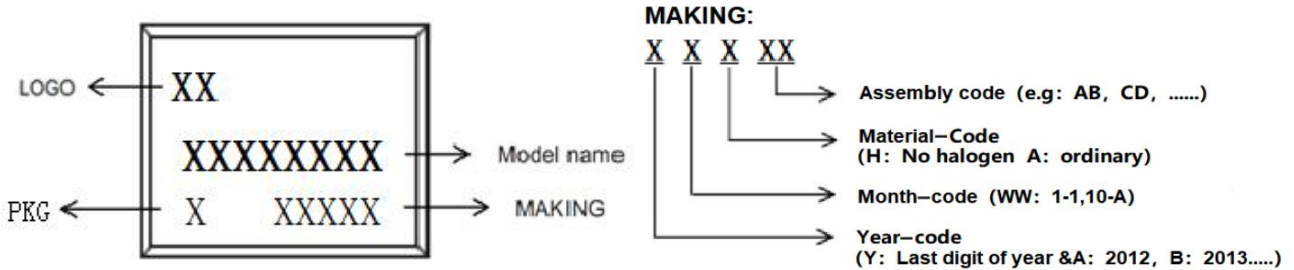
TO-220F



TO-263



Marking on the body

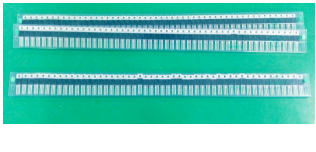







Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
BU406	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
BU406	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
BU406	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
BU406	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 8000pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

packing instruction

PKG	最小包装	内盒	外箱
TO-220AB TO-220F TO-263			
	50pcs/管	1000pcs/盒	5000pcs/箱
TO-263-R			
	800pcs/盘	1600pcs/盒	8000pcs/箱

Notice

- All product, product specifications and data are subject to change without notice to improve. The right to explain is owned by LINGXUN electronics company.
- Confirm that operation temperature is within the specified range described in the product specification. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- LINGXUN electronics shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.