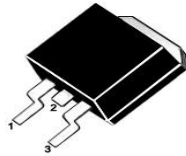
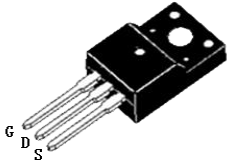


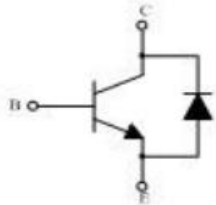
TO-220



TO-263



TO-220F



FEATURES

- High voltage
- High speed switching

APPLICATIONS

- High Speed Switching
- Suitable for Switching Regulator and Motor Control

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

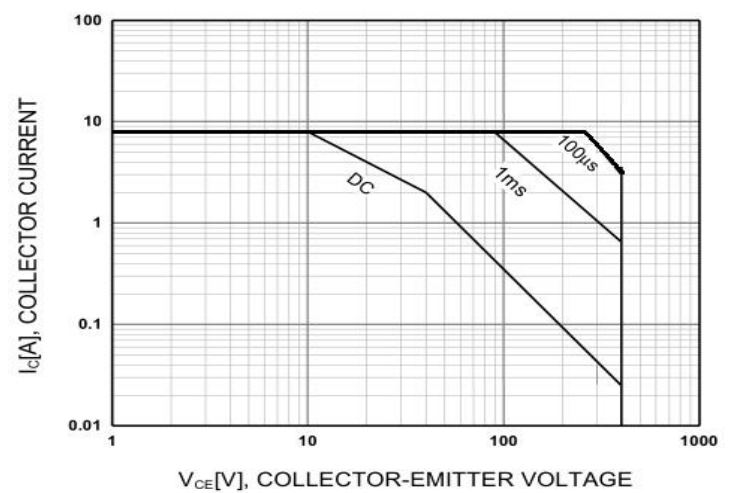
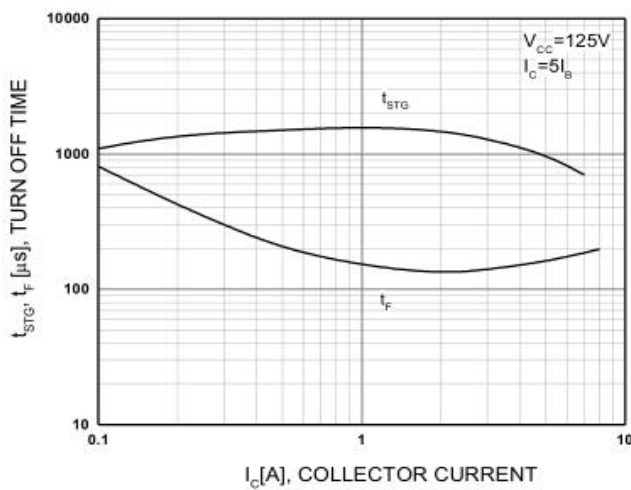
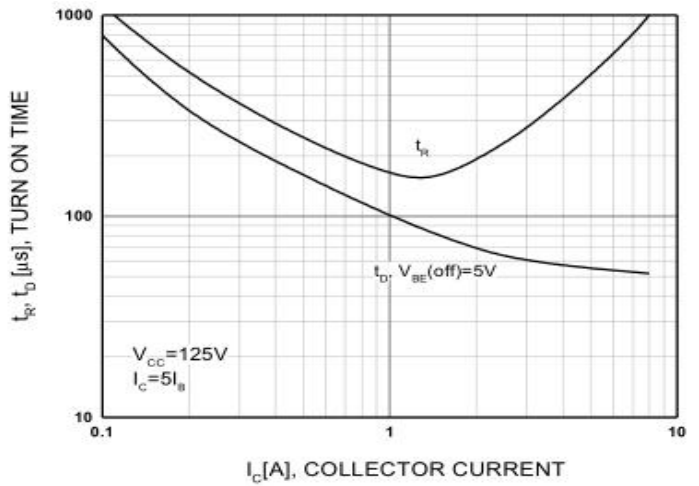
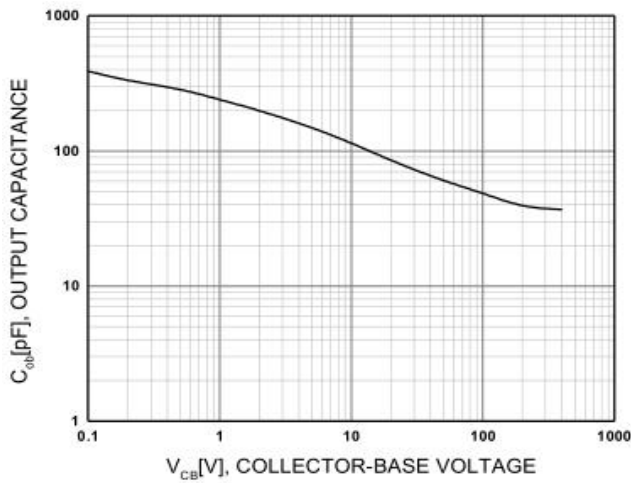
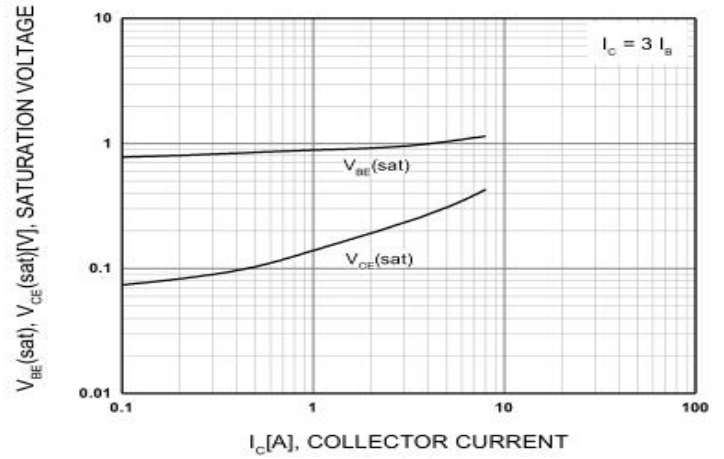
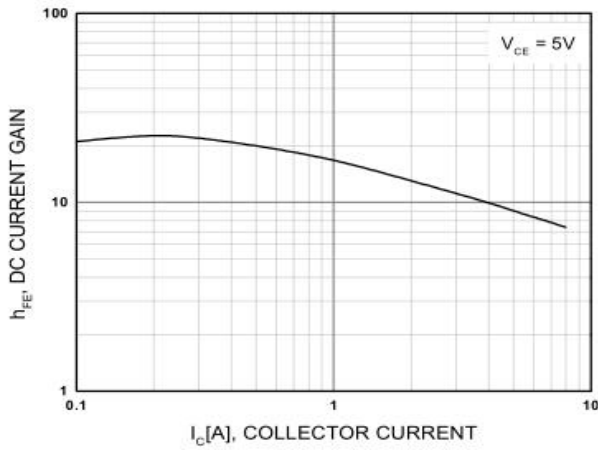
Maximum Ratings at Ta=25°C unless otherwise specified

Characteristics	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	700	V
Collector Emitter Voltage	V_{CEO}	400	V
Emitter Base Voltage	V_{EBO}	9	V
Collector Current	I_C	5	A
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	1.56	°C/W
Power Dissipation (Tc = 25 °C) Superimposed on Rated Load (JEDEC method)	P_{tot}	2	W
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics(Ta=25°C)

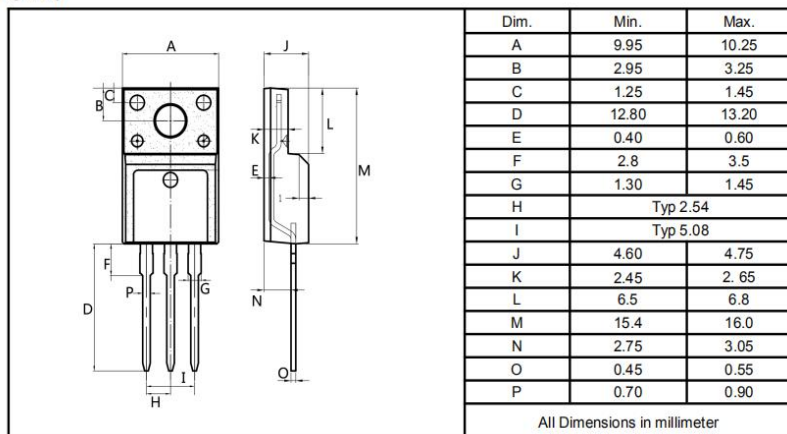
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 5V, I_C = 2A$	h_{FE}	8	-	40	-
Collector Base Cutoff Current at $V_{CB} = 700V$	I_{CBO}	-	-	100	μA
Collector Emitter Cutoff Current at $V_{CE} = 400V$	I_{CEO}	-	-	100	μA
Emitter Base Cutoff Current at $V_{EB} = 9V$	I_{EBO}	-	-	100	μA
Collector Emitter Saturation Voltage at $I_C = 5A, I_B = 1A$	$V_{CE(sat)}$	-	-	2	V
Base Emitter Saturation Voltage at $I_C = 4A, V_{CE} = 1V$	$V_{BE(sat)}$	-	-	1.6	V
Transition Frequency at $V_{CE}=10V, I_C=500mA, f=1MHz$	f_T	4	-	-	MHZ

RATINGS AND CHARACTERISTIC CURVES

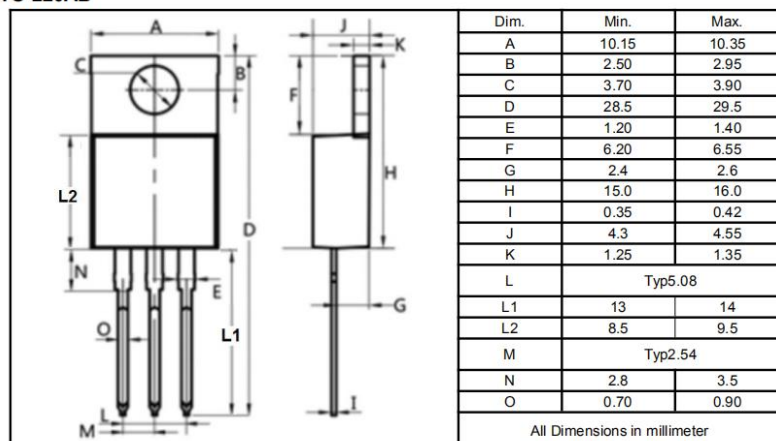


Package Outline Dimensions millimeters

TO-220F



TO-220AB



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