

**NPN Silicon Epitaxial Planar Transistor**

**Features**

- ◆ High voltage
- ◆ High speed switching

**APPLICATIONS**

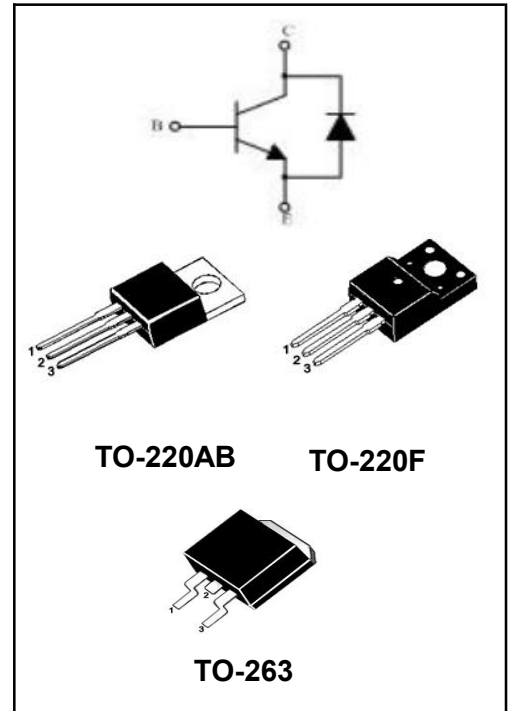
- ◆ High Speed Switching
- ◆ Suitable for Switching Regulator and Motor Control

**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

**Product Specification Classification**

Part Number	Package	Marking	Pack
YFW13007AT	TO-220AB	YFW 13007AT XXXXX	1000PCS/box
YFW13007AF	TO-220F	YFW 13007AF XXXXX	1000PCS/box
YFW13007AS	TO-263	YFW 13007AS XXXXX	800PCS/Reel



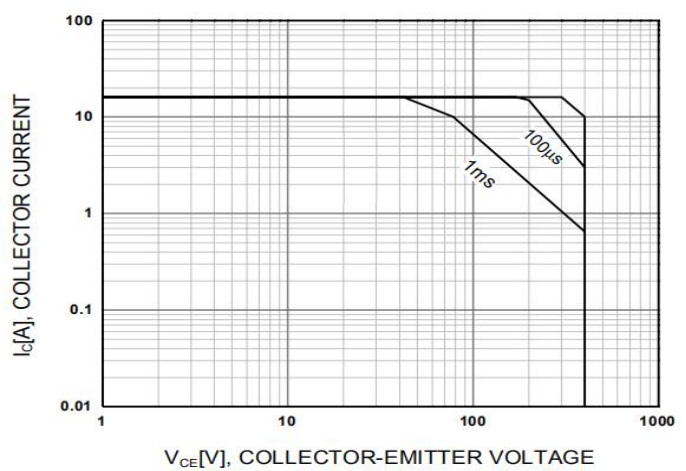
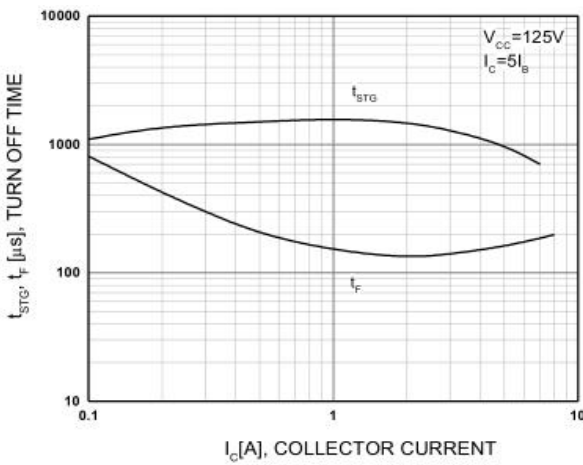
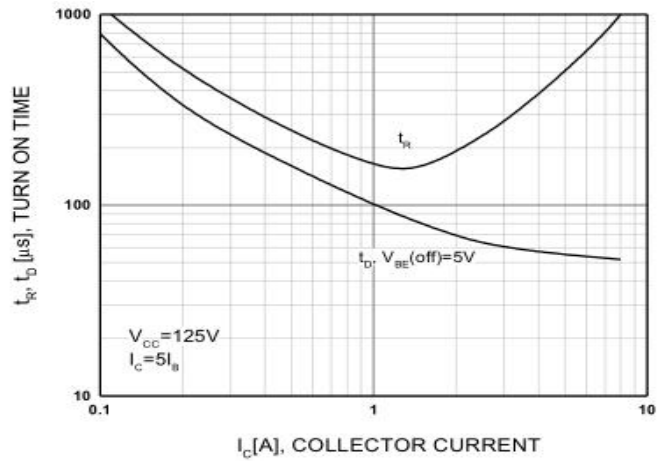
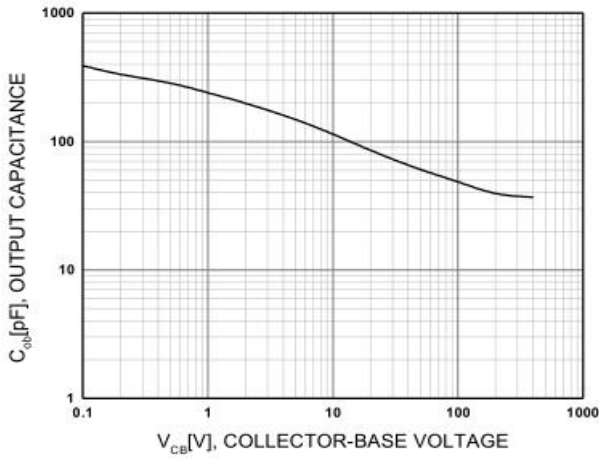
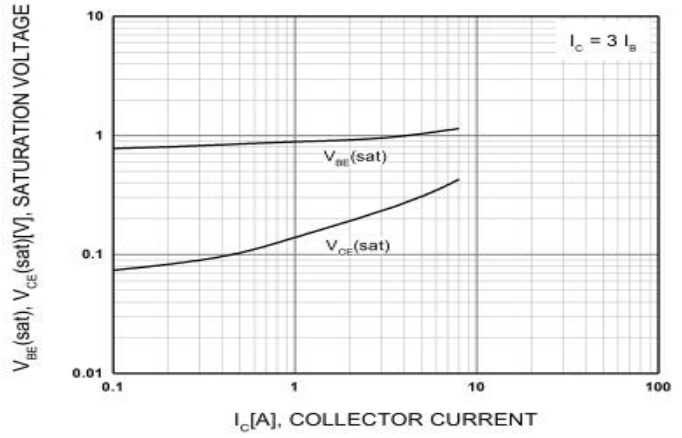
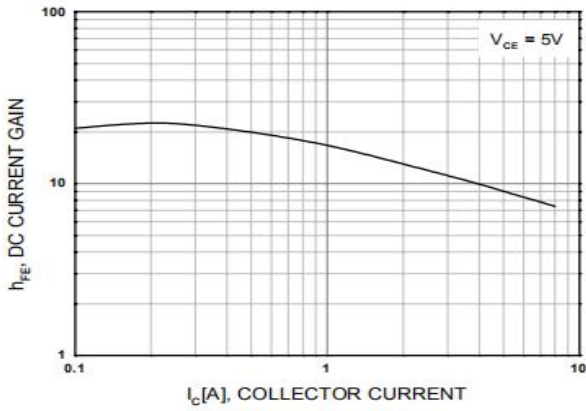
**Maximum Ratings at Ta=25°C unless otherwise specified**

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	$I_C$	8	A
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)**

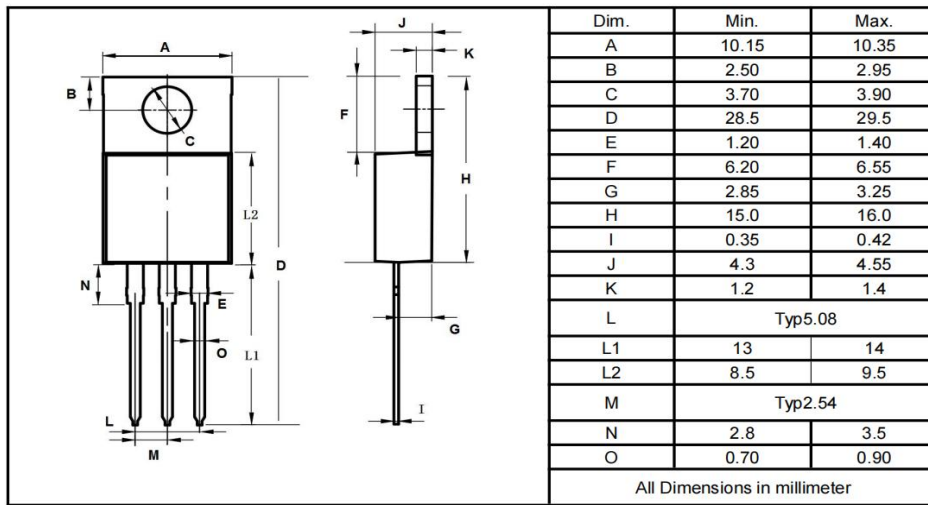
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 5V, I_C = 2A$	$h_{FE}$	8	-	40	-
Collector Base Cutoff Current at $V_{CB} = 700V$	$I_{CBO}$	-	-	10	$\mu A$
Collector Emitter Cutoff Current at $V_{CE} = 400V$	$I_{CEO}$	-	-	10	$\mu A$
Emitter Base Cutoff Current at $V_{EB} = 9V$	$I_{EBO}$	-	-	10	$\mu A$
Collector Emitter Saturation Voltage at $I_C = 2A, I_B = 400mA$	$V_{CE(sat)}$	-	-	1	V
Base Emitter Saturation Voltage at $I_C = 2A, I_B = 400mA$	$V_{BE(sat)}$	-	-	1.2	V
Transition Frequency at $V_{CE}=10V, I_C=500mA, f=1MHZ$	$f_T$	4	-	-	MHZ

Ratings And Characteristic Curves

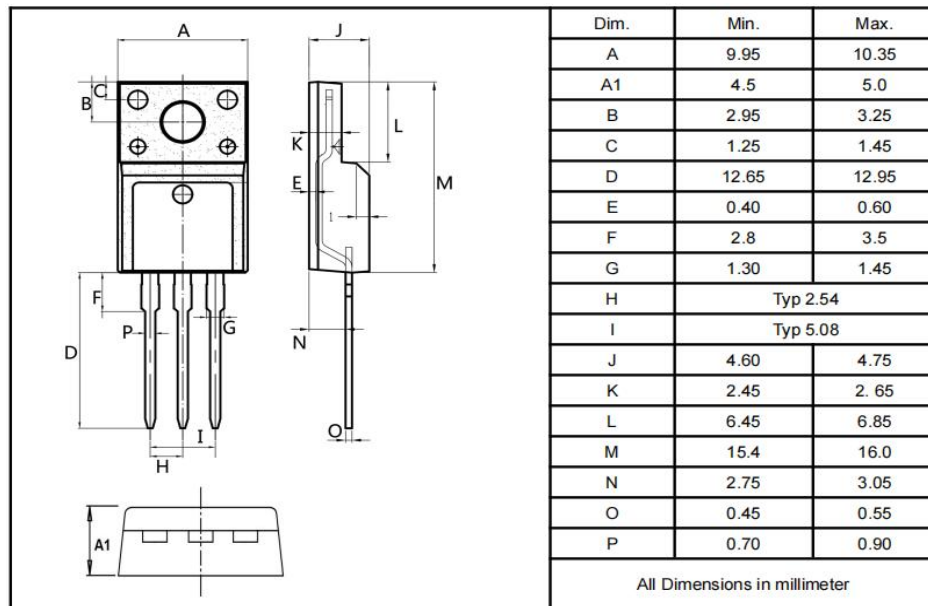


Package Outline Dimensions millimeters

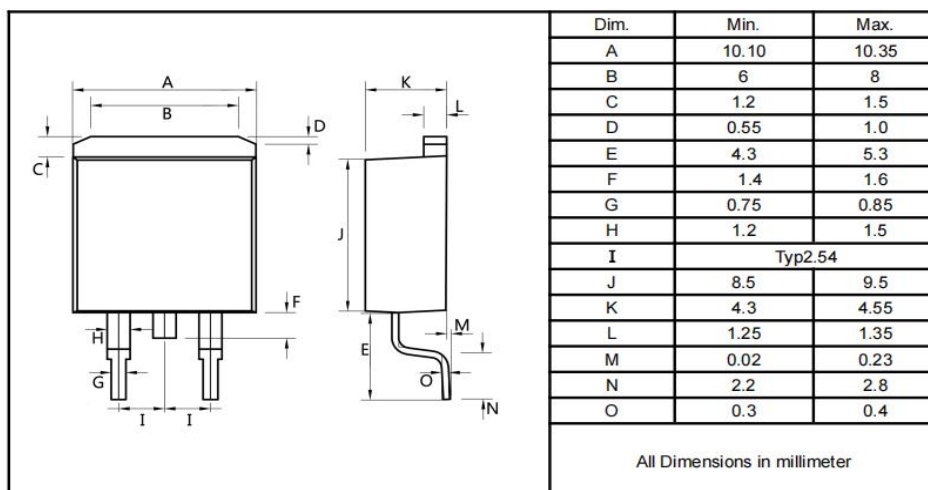
TO-220AB



TO-220F



TO-263



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