

NPN Silicon Epitaxial Planar Transistor

Features

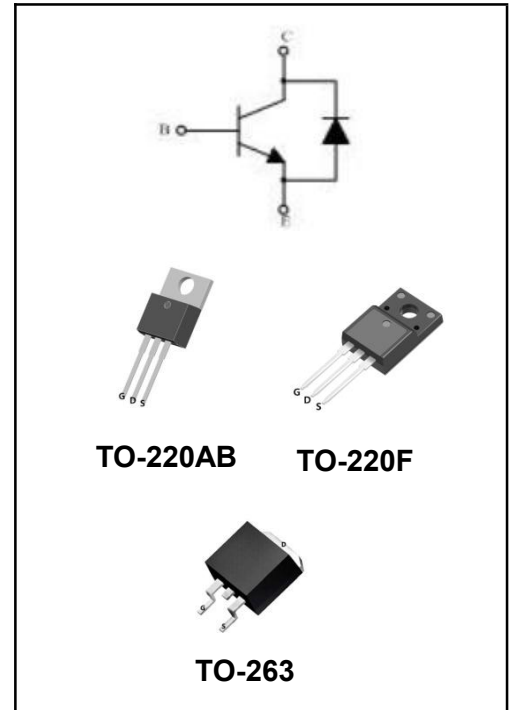
- ◆ High voltage
- ◆ High speed switching

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 JESD22-106



Product Specification Classification

Part Number	Package	Marking	Pack
YFW13005AT	TO-220AB	YFW 13005AT-(A/B/C/D) XXXXX	1000PCS/Tape
YFW13005AF	TO-220F	YFW 13005AF-(A/B/C/D) XXXXX	1000PCS/Tape
YFW13005AS	TO-263	YFW 13005AS-(A/B/C/D) XXXXX	800PCS/Tube

档位	A	B	C	D
HFE	15-20	20-25	25-30	30-35

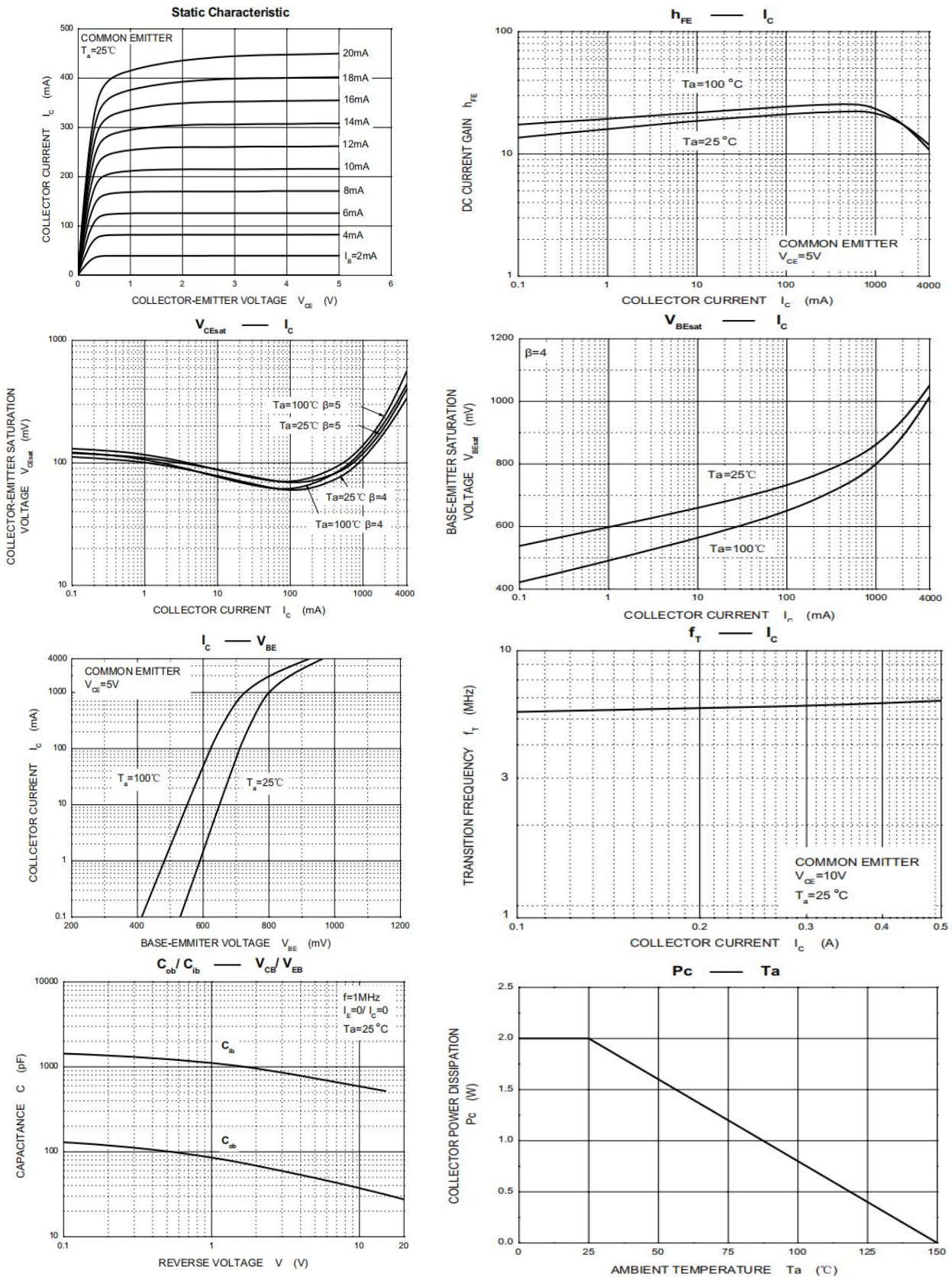
Maximum Ratings At Ta=25°C Unless Otherwise Specified

Characteristics	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	800	V
Collector Emitter Voltage	V_{CEO}	450	V
Emitter Base Voltage	V_{EBO}	9	V
Collector Current	I_C	4	A
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	62.5	°C/W
Power Dissipation (Tc = 25 °C) Superimposed on Rated Load (JEDEC method)	P_{tot}	1.25	W
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics(Ta=25°C)

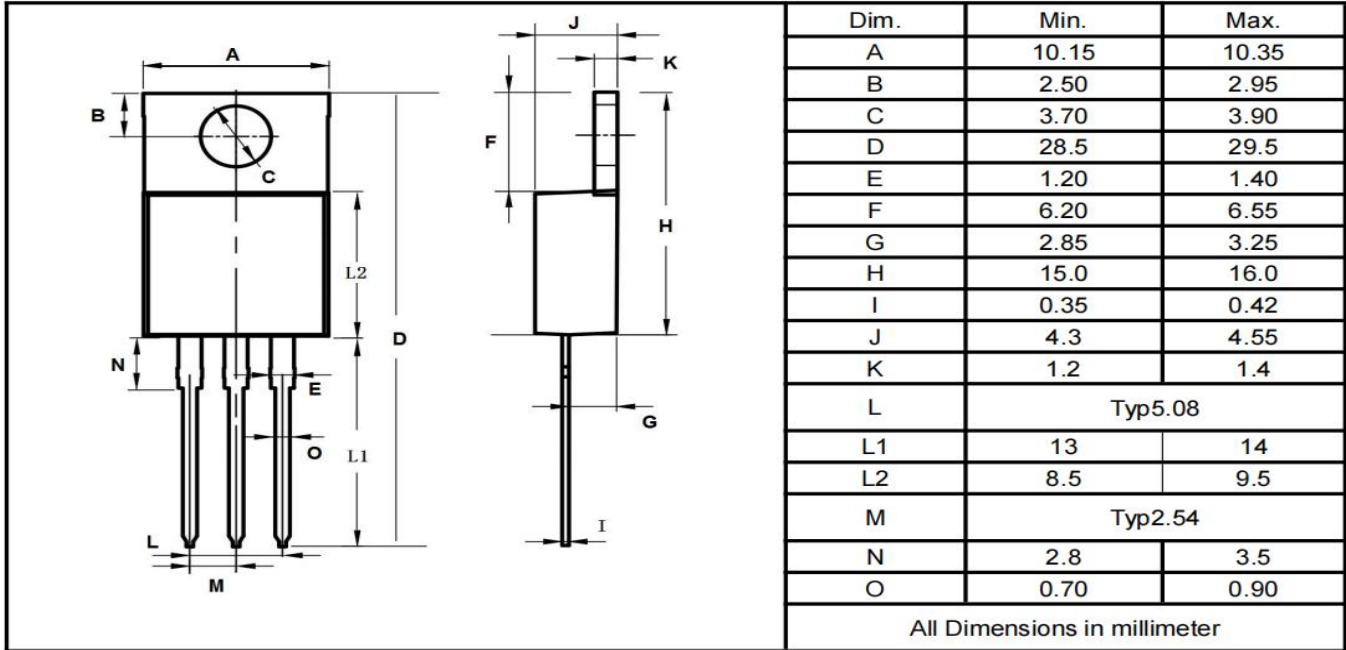
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 5V, I_C = 1A$	h_{FE}	15	-	35	-
Collector Base Cutoff Current at $V_{CB} = 750V$	I_{CBO}	-	-	10	μA
Collector Emitter Cutoff Current at $V_{CE} = 400V$	I_{CEO}	-	-	10	μA
Emitter Base Cutoff Current at $V_{EB} = 9V$	I_{EBO}	-	-	10	μA
Collector Emitter Saturation Voltage at $I_C = 200mA, I_B = 40mA$	$V_{CE(sat)}$	-	-	1	V
Base Emitter Saturation Voltage at $I_C = 200mA, I_B = 40mA$	$V_{BE(sat)}$	-	-	1.5	V
Transition Frequency at $V_{CE}=10V, I_C=500mA, f=1MHZ$	f_T	4	-	-	MHZ

Ratings And Characteristic Curves

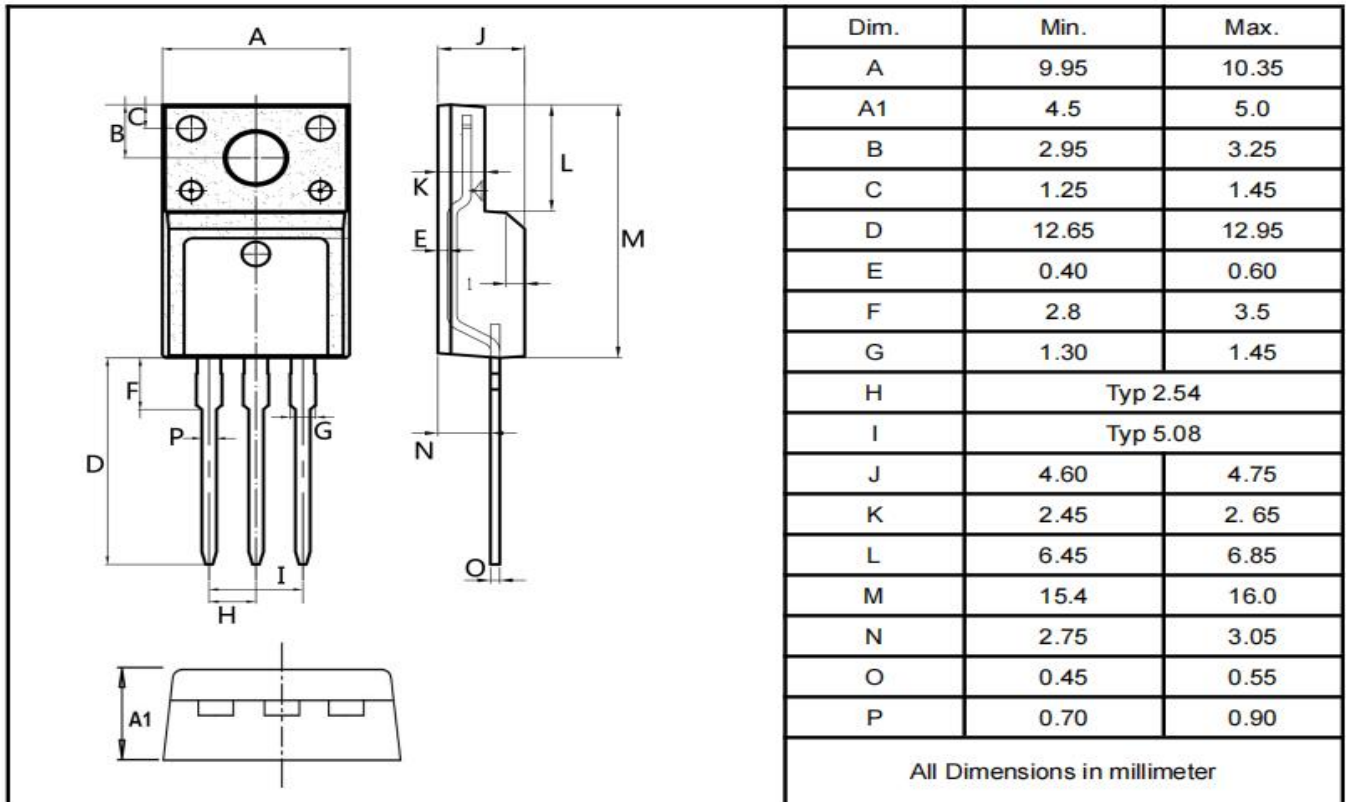


Package Outline Dimensions millimeters

TO-220AB

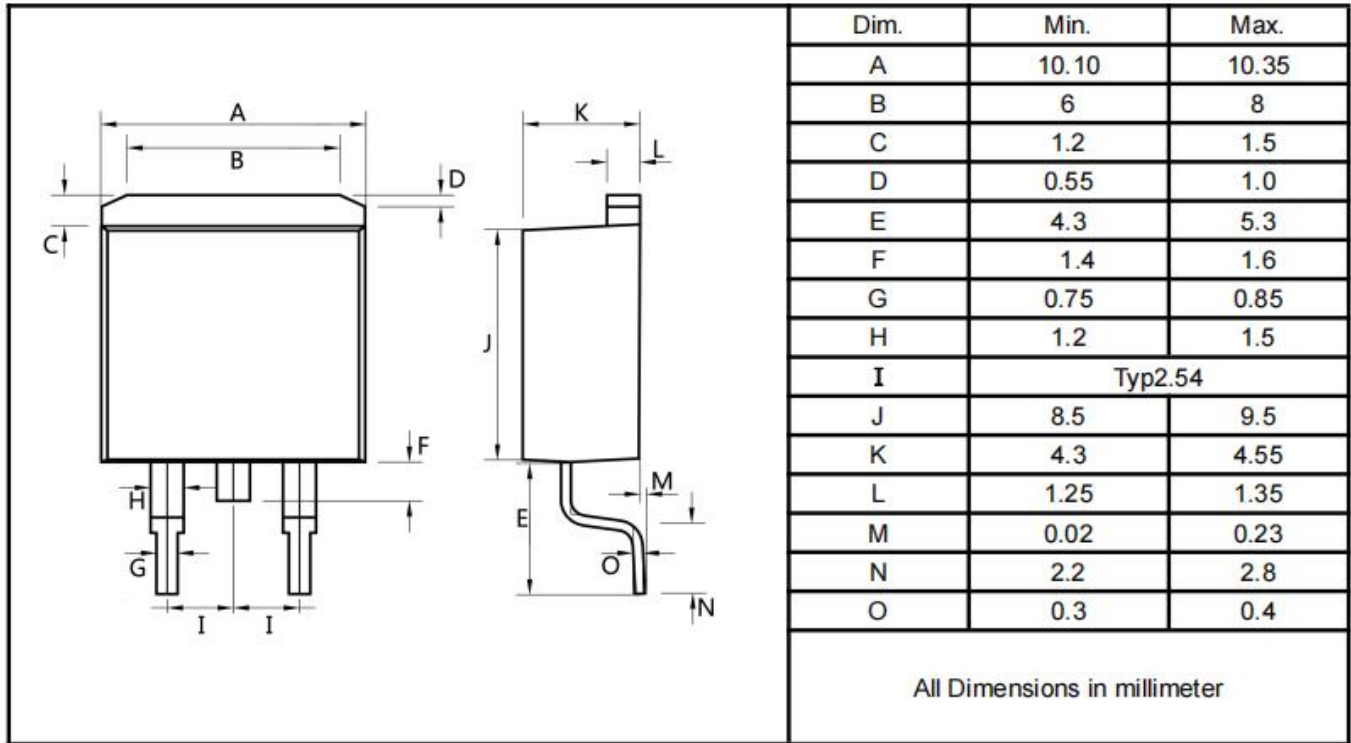


TO-220F



Package Outline Dimensions millimeters

TO-263



单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)