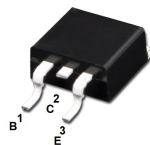
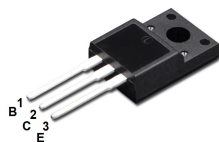


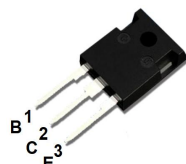
TO-220AB



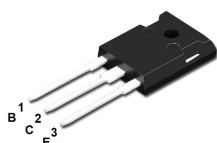
TO-263



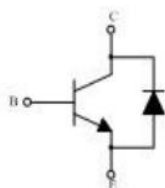
TO-220F



TO-247S



TO-247



FEATURES

- High voltage
- High speed switching

APPLICATIONS

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



MECHANICAL DATA

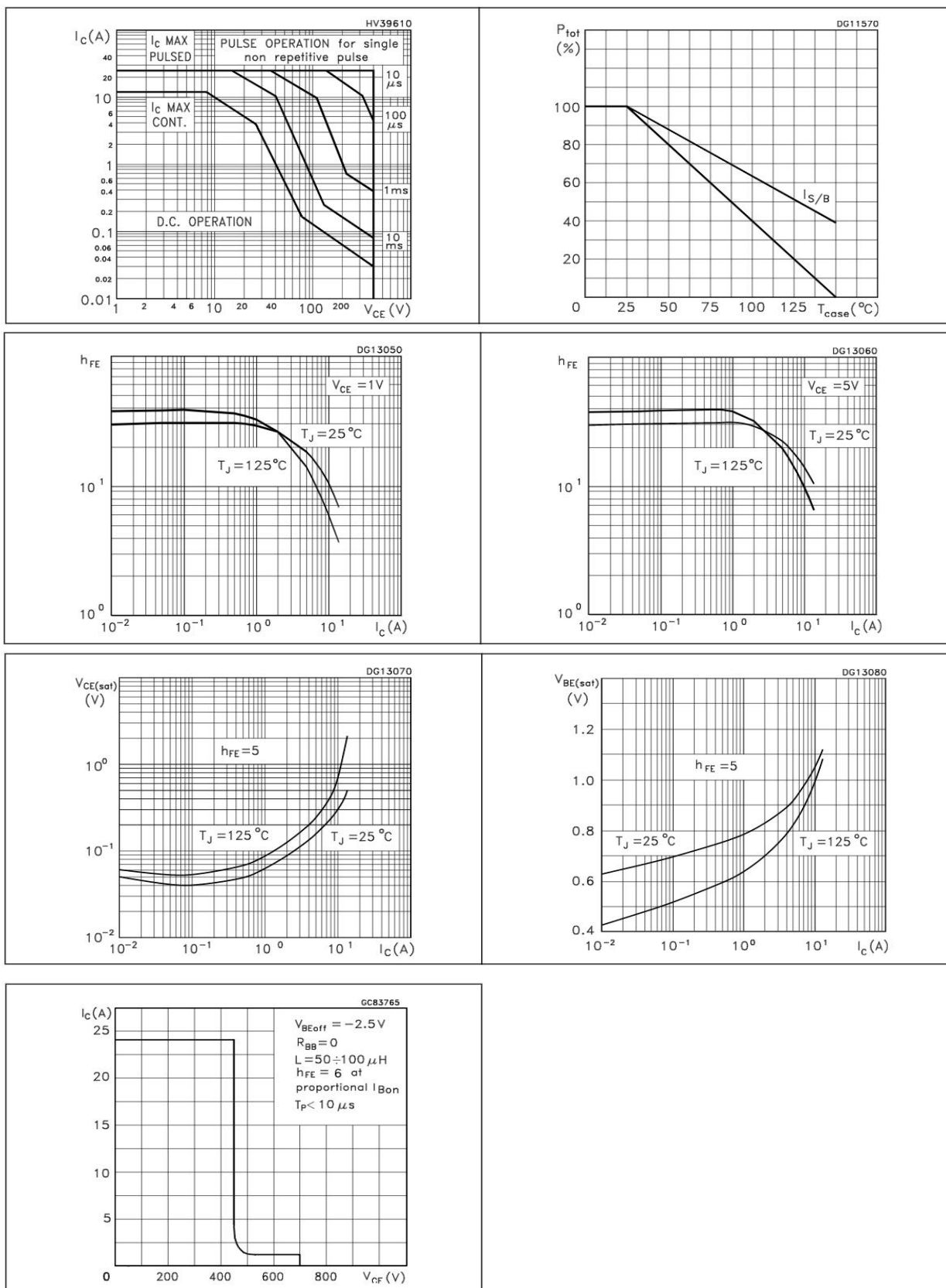
- **Case:** Molded plastic
- **Polarity:** As marked
- **Mounting Position:** Any
- **Molded Plastic:** UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275°C maximum, 10s per JESD 22-B106

Maximum Ratings at Ta=25°C unless otherwise specified

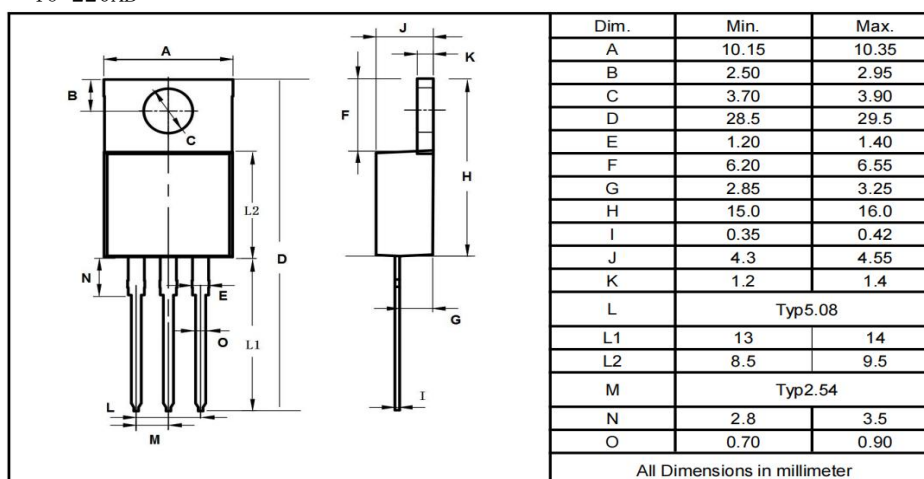
Characteristics	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	700	V
Collector Emitter Voltage	V_{CEO}	400	V
Emitter Base Voltage	V_{EBO}	9	V
Collector Current	I_C	12	A
Power Dissipation (Tc = 25 °C) Superimposed on Rated Load (JEDEC method)	P_{tot}	100	W
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	62.5	°C/W

Electrical Characteristics(Ta=25°C)

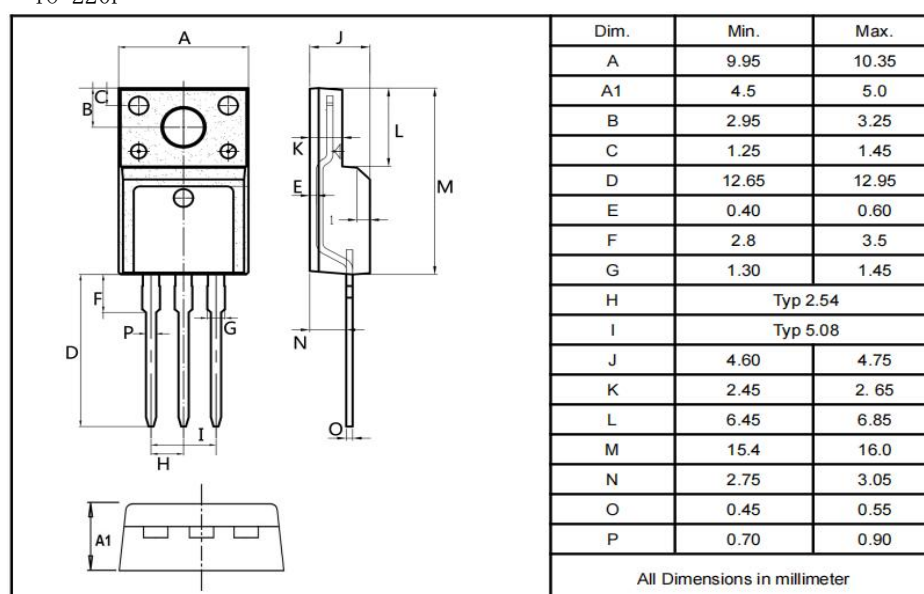
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 5V, I_C = 3A$	h_{FE}	25	-	35	-
Collector Base Cutoff Current at $V_{CB} = 700V$	I_{CBO}	-	-	1	μA
Collector Emitter Cutoff Current at $V_{CE} = 400V$	I_{BEO}	-	-	1	μA
Emitter Base Cutoff Current at $V_{EB} = 9V$	I_{EBO}	-	-	1	μA
Collector Emitter Saturation Voltage at $I_C = 8A, I_B = 4A$	$V_{CE(sat)}$	-	-	0.8	V
Base Emitter Saturation Voltage at $I_C = 8A, I_B = 4A$	$V_{BE(sat)}$	-	-	1.5	V
Transition Frequency at $V_{CE}=10V, I_C=0.5A, f=1MHz$	f_T	4	-	-	MHZ



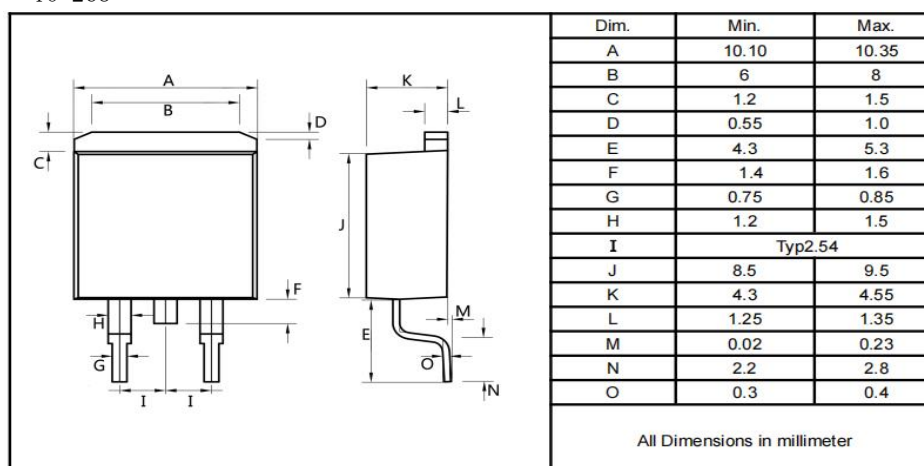
T0-220AB



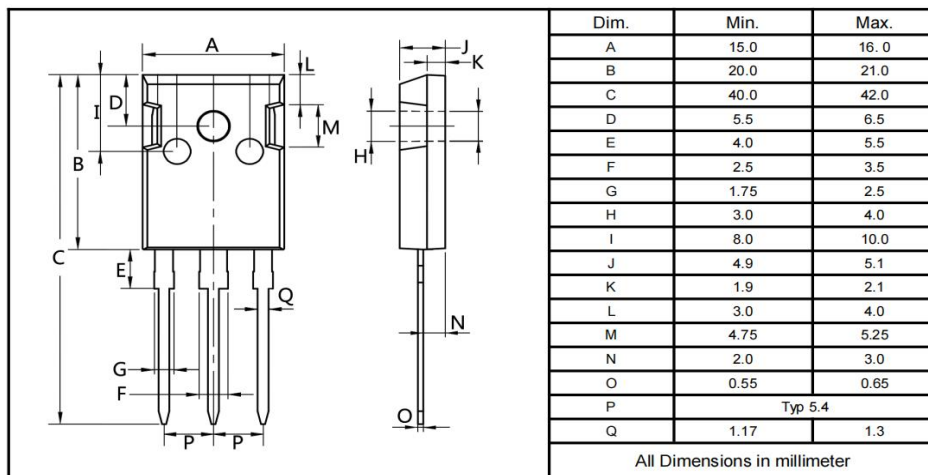
T0-220F



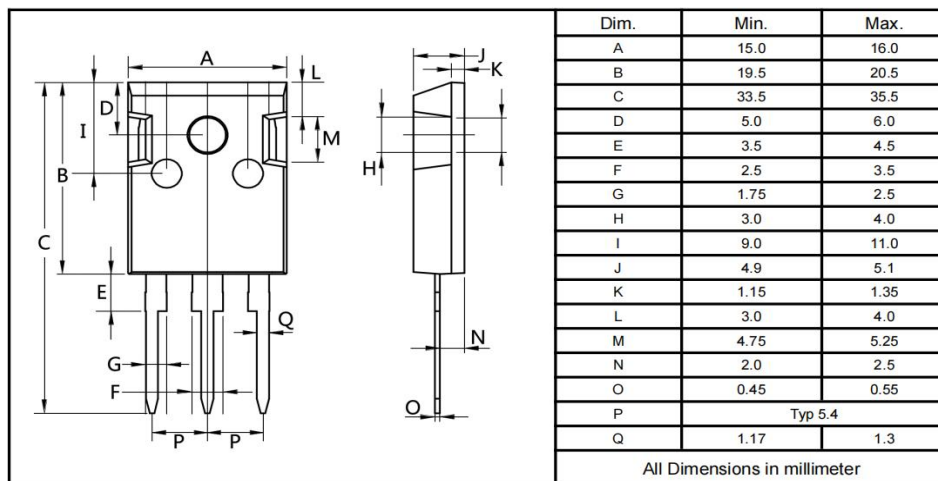
T0-263



T0-247



T0-247S



Product specification classification			
Part Number	Package	Unit Weight	Base Quantity
SL13009B1	TO-220AB	0.07oz(1.96g)	50 pcs / tube
SL13009B2	TO-220F	0.06oz(1.74g)	50 pcs / tube
SL13009B3	TO-263	0.04oz(1.16g)	50 pcs / tube
SL13009B3-R	TO-263	0.04oz(1.16g)	800 pcs / tube
SL13009B6	TO-247	0.209oz(5.93g)	30 pcs / tube
SL13009B7	TO-247S	0.158oz(4.48g)	30 pcs / tube