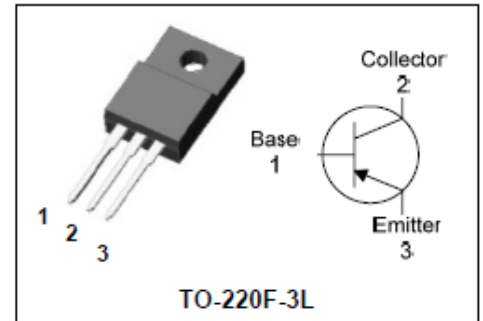


Features

- Low saturation switching application
- Power amplifier
- High Voltage : $V_{CE0} = -80V$ Min.
- Complement to KTD1408PI

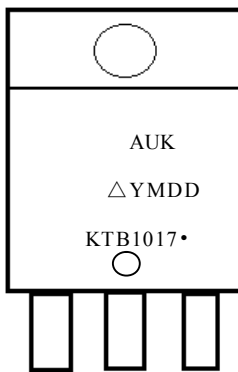
PIN Connection



Ordering Information

Type NO.	Marking	Package Code
KTB1017PI	KTB1017•	TO-220F-3L

Marking Diagram



Column 1 : Manufacturer

Column 2 : Production Information

- Δ : Factory Management Code

- YMDD : Date Code (Year, Month, Date)

Column 3 : Device Code

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Absolute maximum ratings

Characteristic	Symbol	Rating	Unit
Collector-Base voltage	V_{CB0}	-80	V
Collector-Emitter voltage	V_{CE0}	-80	V
Emitter-base voltage	V_{EB0}	-5	V
Collector current	I_C	-4	A
	I_{CP}^*	-8	A(Pulse)
Collector Power dissipation ($T_c=25^\circ C$)	P_C	15	W
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55~150	$^\circ C$

* : Single pulse, $t_p = 300 \mu s$

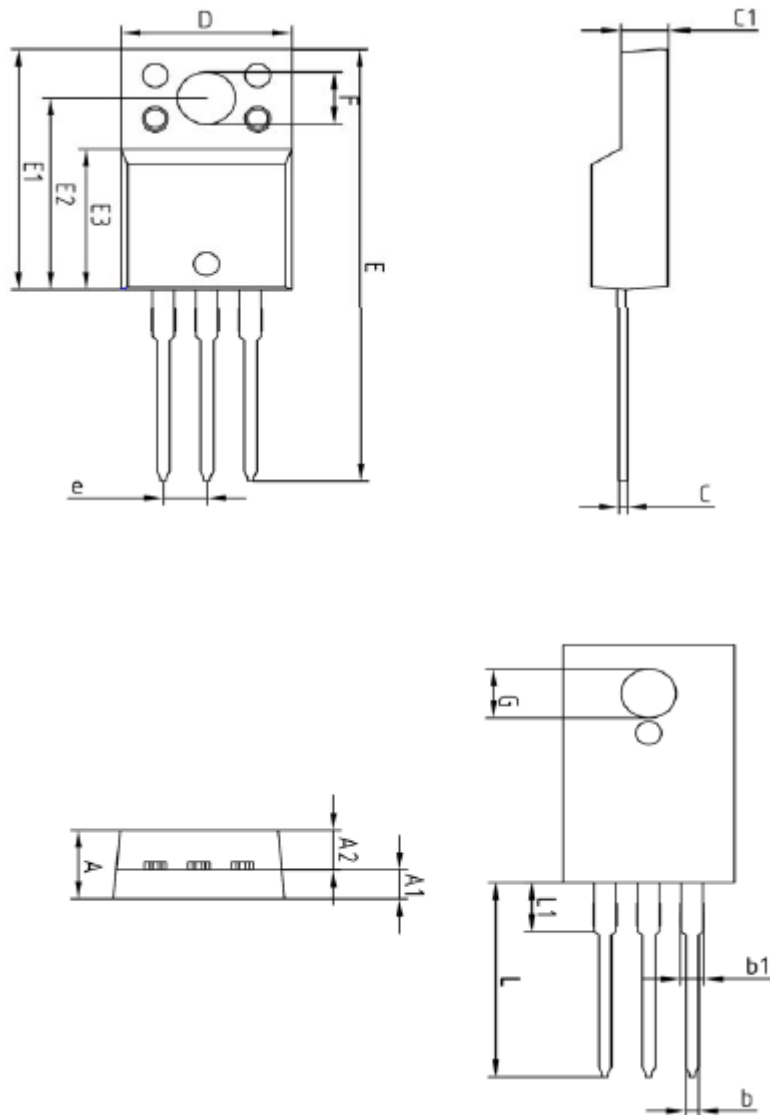
Characteristic		Symbol	Typ.	Max	Unit
Thermal resistance	Junction-case	$R_{th(J-C)}$	-	8.33	$^\circ C/W$
	Junction-ambient	$R_{th(J-a)}$	-	62.5	

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector cut-off current	I_{CBO}	$V_{CB}=-80V, I_E=0$	-	-	-10	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-10	μA
Collector-Emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-50mA, I_B=0$	-80	-	-	V
DC current gain	h_{FE}	$V_{CE}=-5V, I_C=-0.5A$	120	-	240	-
		$V_{CE}=-5V, I_C=-3A$	40	-	-	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_C=-3A, I_B=-0.3A$	-	-1.0	-1.7	V
Base-Emitter saturation voltage	$V_{BE(on)}$	$V_{CE}=-5V, I_B=-3A$	-	-1.0	-1.5	V
Transition frequency	f_T	$V_{CB}=-5V, I_C=-0.5A$	-	9	-	MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	60	-	pF

* h_{FE} rank : 120~240 Only

Outline Dimension



SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A	-	-	4.60	
A1	2.45	2.50	2.55	
A2	1.95	2.00	2.05	
b	0.65	0.75	0.85	
b1	1.07	1.27	1.47	
C	0.40	0.50	0.60	
C1	2.70	2.80	2.90	
D	9.90	10.00	10.10	
E	28.00	-	28.60	
E1	15.50	15.60	15.70	
E2	12.30	12.40	12.50	
E3	9.15	9.20	9.25	
F	3.30	3.40	3.50	
G	3.10	3.20	3.30	
e	2.54 BSC			
L	12.40	-	13.00	
L1	3.46 BSC			

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