

FEATURES

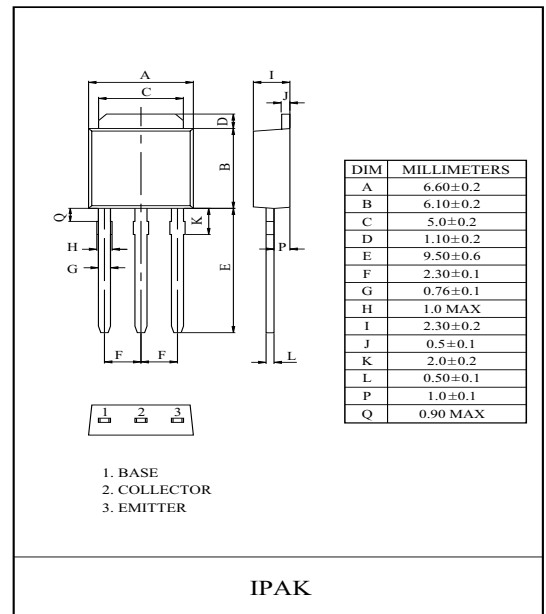
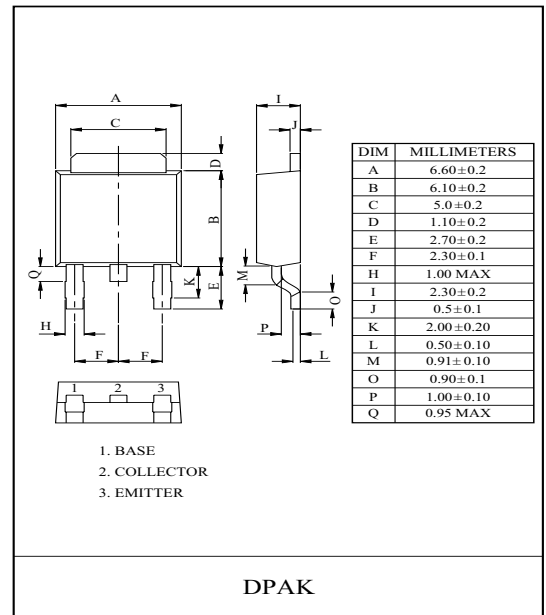
- Low Collector Saturation Voltage.
: $V_{CE(sat)}=0.13V(Typ.)$ at ($I_C=4A, I_B=0.05A$)
- Large Collector Current
: $I_C=10A(dc)$ $I_C=15A(10ms, \text{single pulse})$
- Complementary to KTA1834D/L.

APPLICATION

- Low Frequency Power Amplifier.

MAXIMUM RATING ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	V_{CBO}	30	V	
Collector-Emitter Voltage	V_{CEO}	20	V	
Emitter-Base Voltage	V_{EBO}	6	V	
Collector Current	I_C	10	A	
	I_{CP}	15		
Base Current	I_B	2	A	
Collector Power Dissipation	P_C	$T_a=25^\circ C$	1.0	W
		$T_c=25^\circ C$	10	
Junction Temperature	T_j	150	$^\circ C$	
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$	

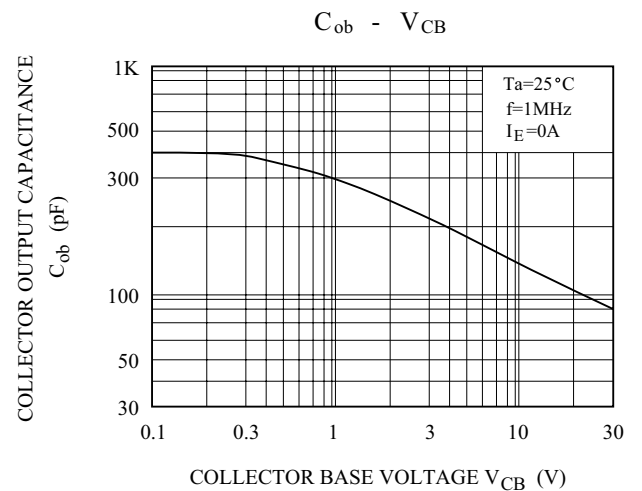
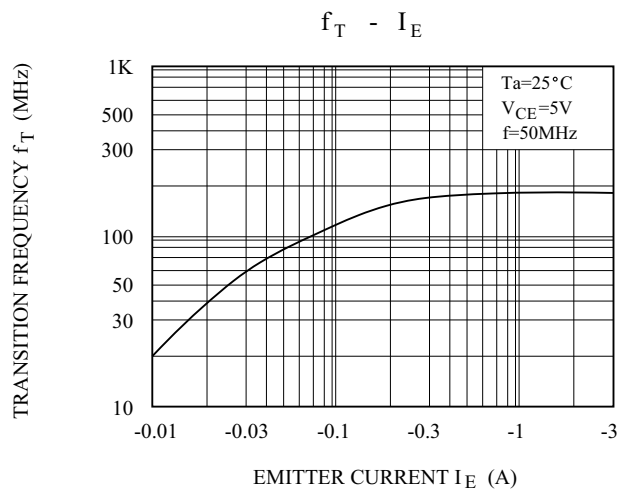
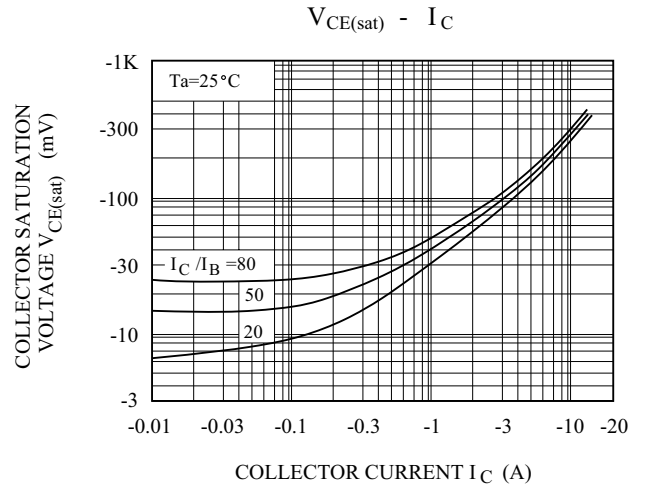
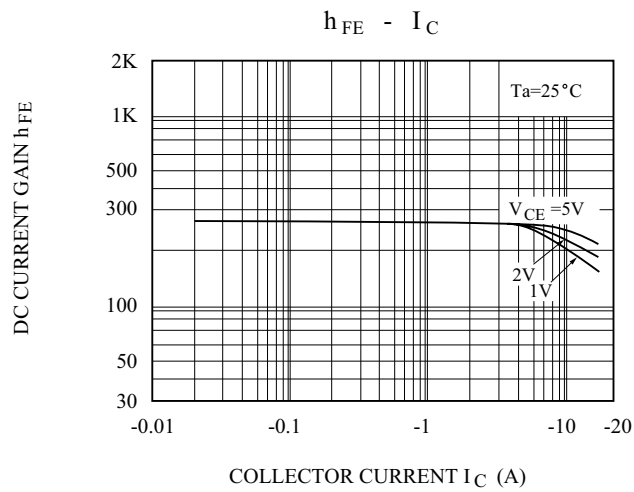
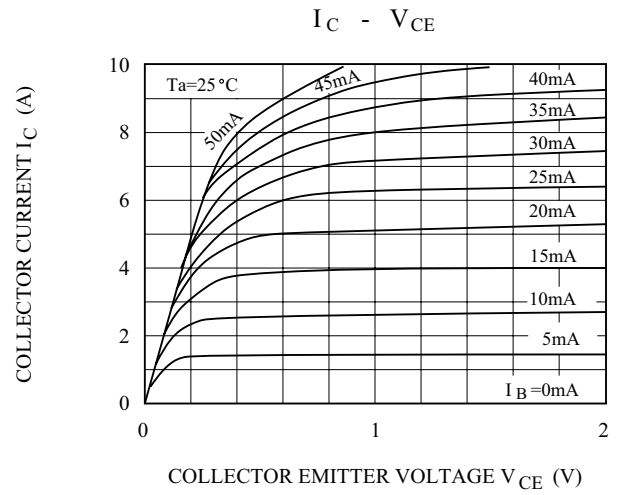
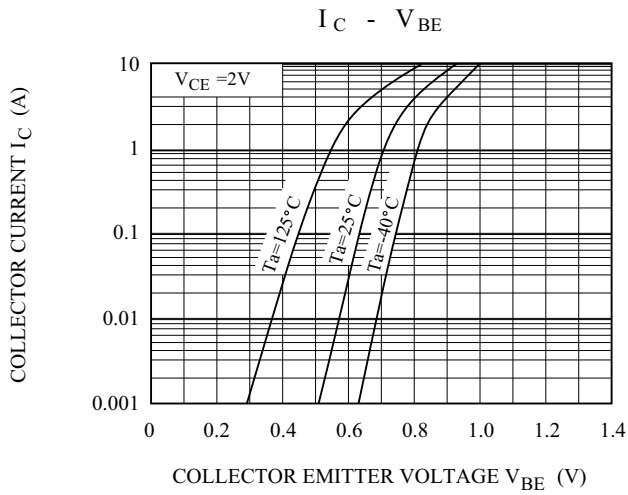


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=20V$	-	-	1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V$	-	-	1.0	μA
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=50\mu A$	30	-	-	V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1mA$	20	-	-	V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=50\mu A$	6	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=2V, I_C=0.5A$	120	-	390	
	$h_{FE(2)}$	$V_{CE}=2V, I_C=4.0A$	82	-	-	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4.0A, I_B=0.05A$	-	0.13	0.25	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4A, I_B=0.05A$	-	0.9	1.2	V
Transition Frequency	f_T	$V_{CE}=5V, I_E=-1.5A, f=50MHz$	-	150	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	220	-	pF

Note : $h_{FE(1)}$ Classification Y:120~270, GR:180~390.

KTC5001D/L



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