

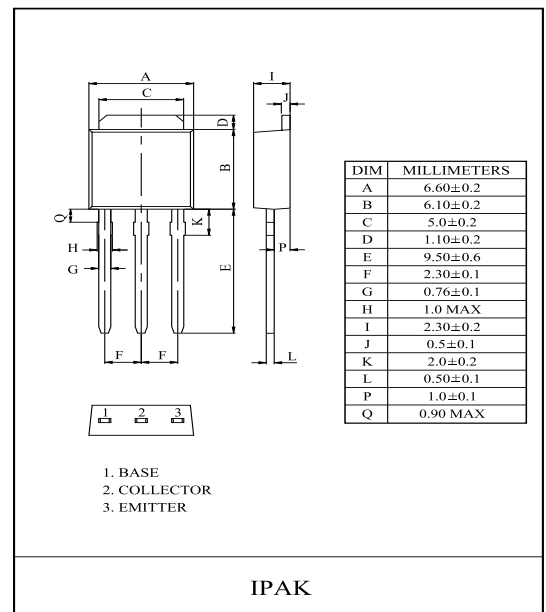
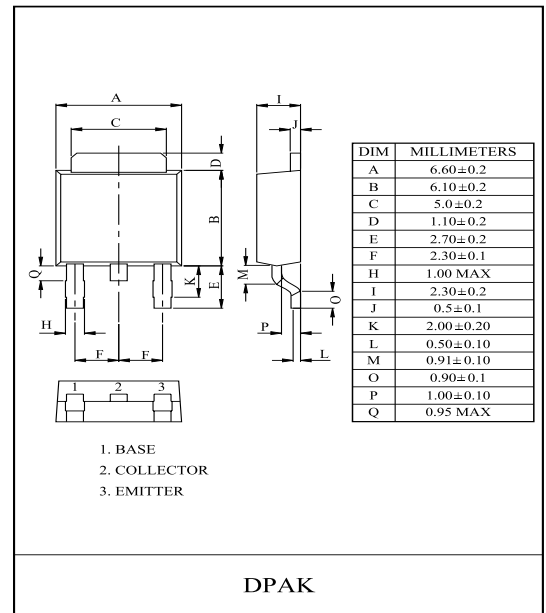
### HIGH VOLTAGE SWITCHING.

### FEATURES

- Low Collector Saturation Voltage  
:  $V_{CE(sat)}=0.5V(\text{Max.})$  at  $(I_C=0.5A)$ .
- High Switching Speed Typically.  
:  $t_f$  0.4  $\mu\text{s}$  at  $I_C=1A$ .
- Complementary to KTA1862D.
- Wide Safe Operating Area (SOA)

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CBO}$	400	V
Collector-Emitter Voltage		$V_{CEO}$	400	V
Emitter-Base Voltage		$V_{EBO}$	7	V
Collector Current	DC	$I_C$	2.0	A
	Pulse		4.0	
Collector Power Dissipation	Ta=25	$P_C$	1.0	W
	Tc=25		10	
Junction Temperature		$T_j$	150	
Storage Temperature Range		$T_{stg}$	-55 150	

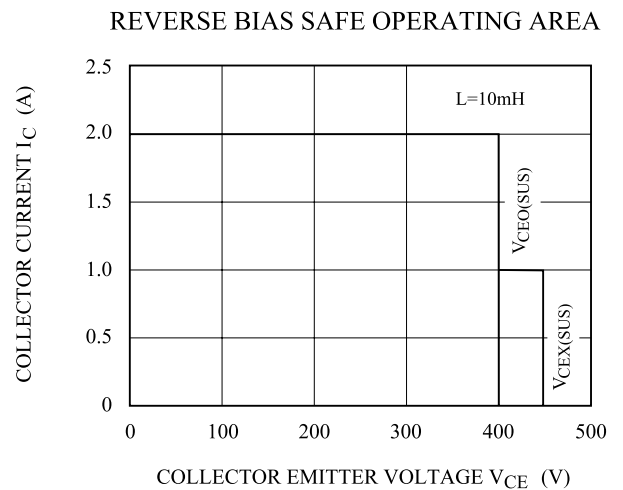
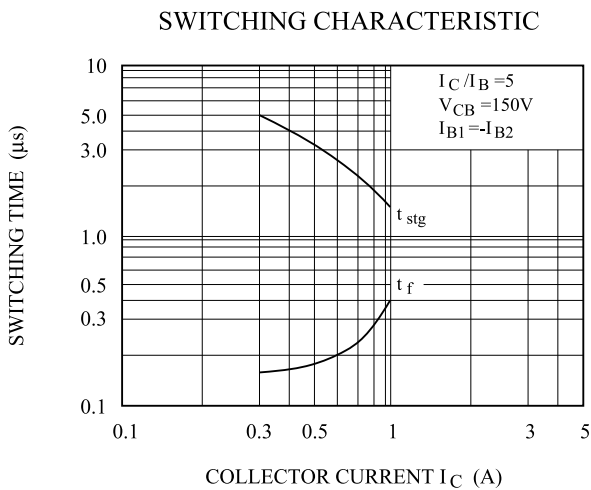
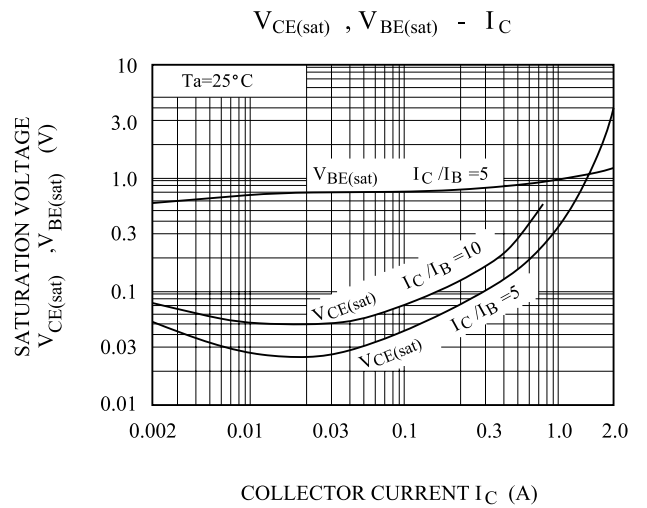
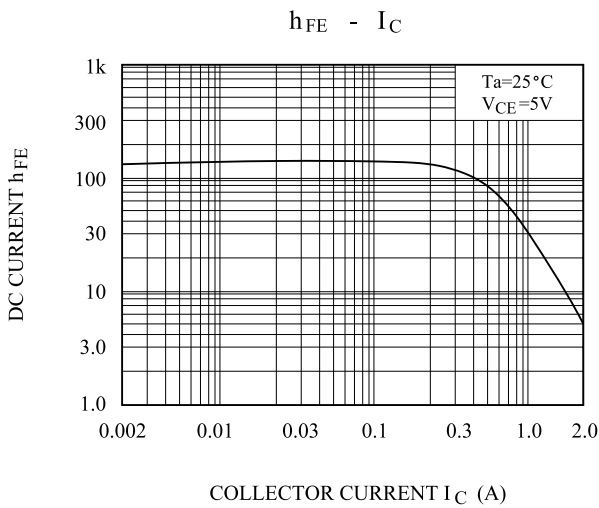
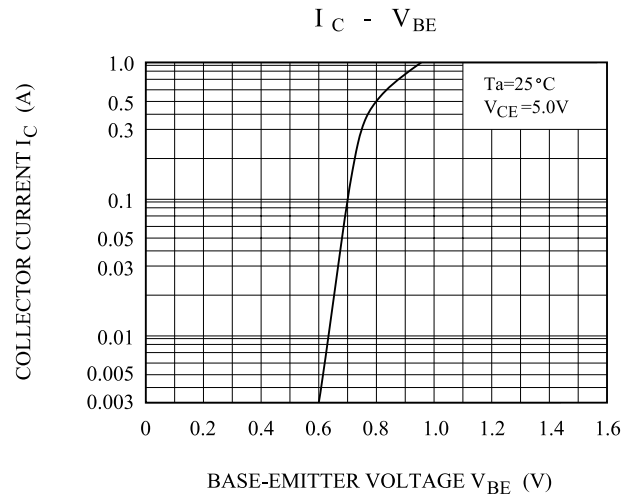
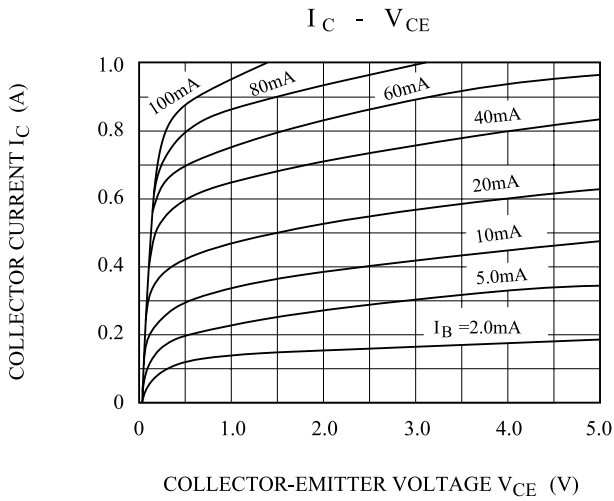


### ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CBO}$	$V_{CB}=400V, I_E=0$	-	-	1.0	$\mu\text{A}$
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=5.0V, I_C=0$	-	-	1.0	$\mu\text{A}$
DC Current Gain	$h_{FE(1)}$ (Note)	$h_{FE(2)}$	$V_{CE}=5.0V, I_C=100\text{mA}$	56	100	180	
			$V_{CE}=5.0V, I_C=500\text{mA}$	6	-	-	
Collector Saturation Voltage		$V_{CE(sat)}$	$I_C=500\text{mA}, I_B=100\text{mA}$	-	0.3	0.5	V
Base Saturation Voltage		$V_{BE(sat)}$	$I_C=500\text{mA}, I_B=100\text{mA}$	-	-	1.2	V
Transition Frequency		$f_T$	$V_{CE}=10V, I_E=-100\text{mA}, f=5\text{MHz}$	-	18	-	MHz
Collector Output Capacitance		$C_{ob}$	$V_{CB}=10V, I_E=0, f=1\text{MHz}$	-	30	-	pF
Switching Time	Turn-on Time	$t_{on}$		-	0.2	-	$\mu\text{s}$
	Storage Time	$t_{stg}$		-	1.8	-	
	Fall Time	$t_f$		-	0.4	-	

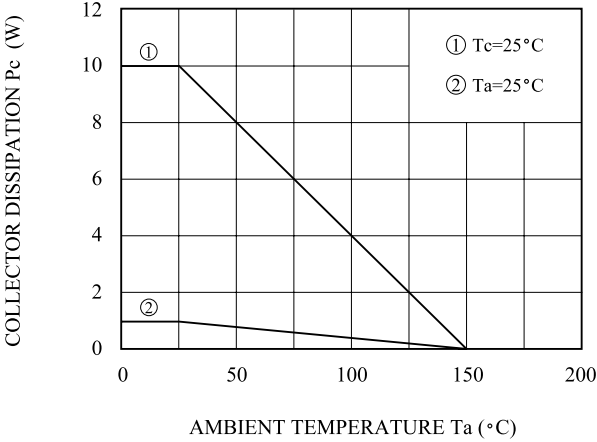
Note :  $h_{FE(1)}$  Classification O:56 120 , Y:82 180

# KTC3631D/L



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Pc - Ta



SAFE OPERATING AREA

