

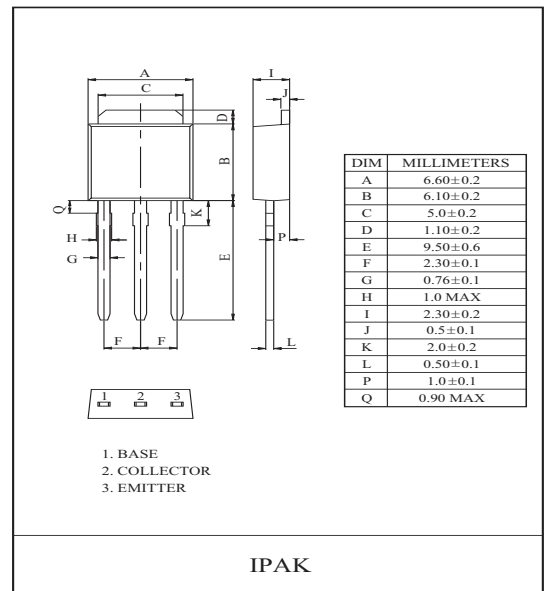
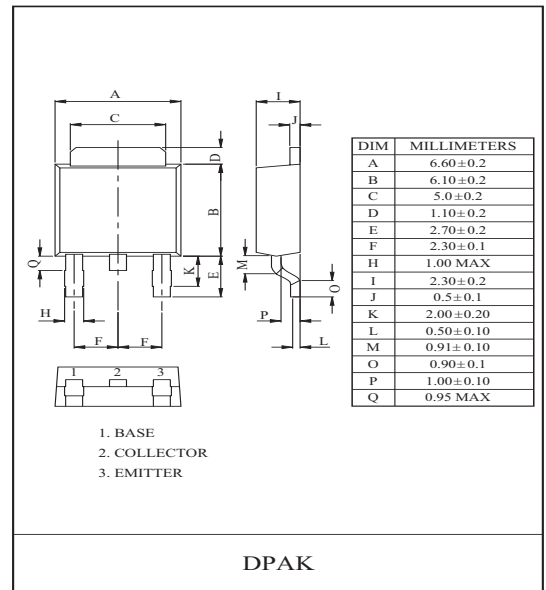
**GENERAL PURPOSE APPLICATION.  
DPAK FOR SURFACE MOUNT APPLICATIONS.**

### FEATURES

- Low Collector Saturation Voltage  
:  $V_{CE(sat)} = -1.0V(\text{Max.})$  at  $I_C = -2A, I_B = -0.2A$ .
- Straight Lead (IPAK, "L" Suffix)
- Complementary to KTC2020D/L.

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CBO}$	-60	V
Collector-Emitter Voltage		$V_{CEO}$	-60	V
Emitter-Base Voltage		$V_{EBO}$	-7	V
Collector Current		$I_C$	-3	A
Base Current		$I_B$	-0.5	A
Collector Power Dissipation	Ta=25	$P_C$	1.0	W
	Tc=25		20	
Junction Temperature		$T_j$	150	
Storage Temperature Range		$T_{stg}$	-55 150	

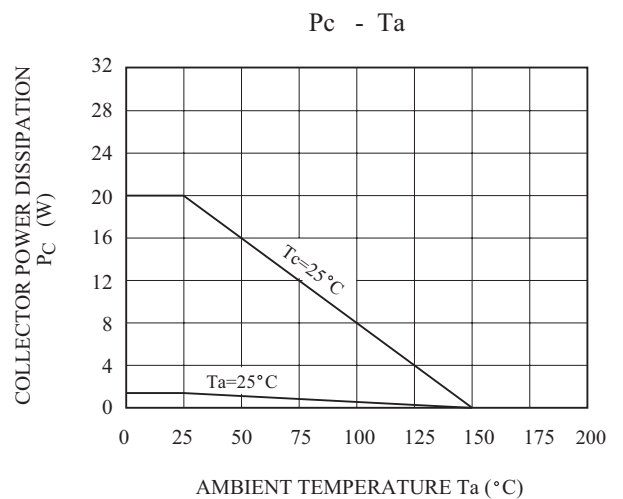
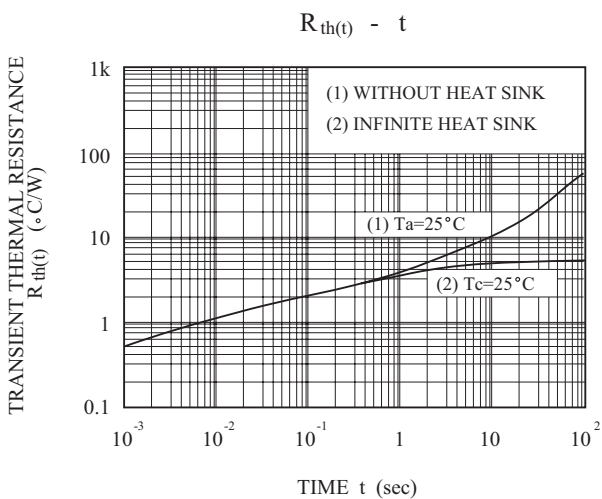
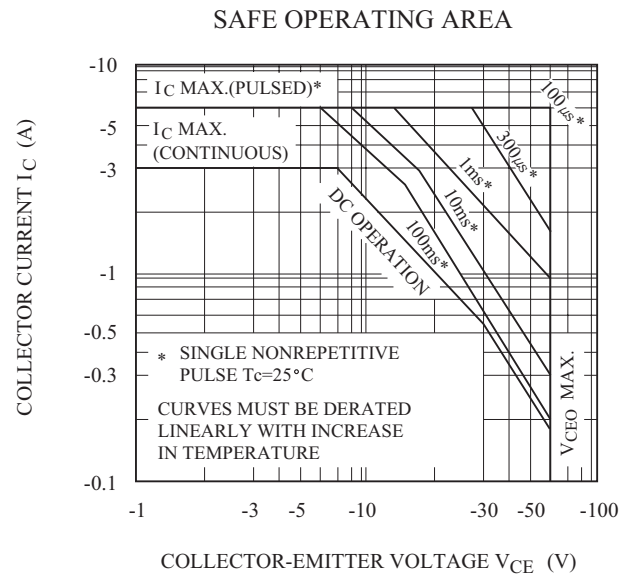
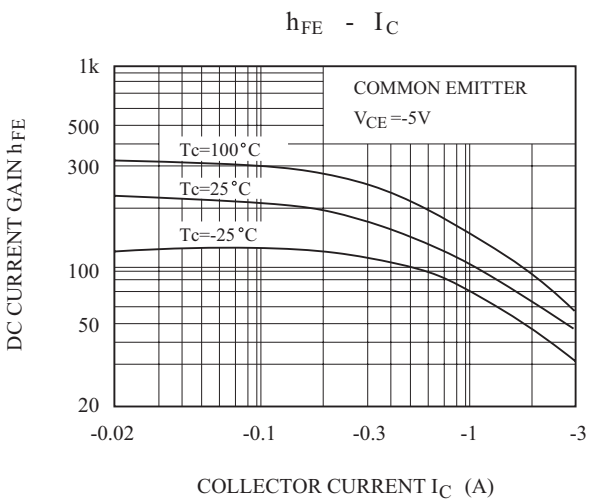
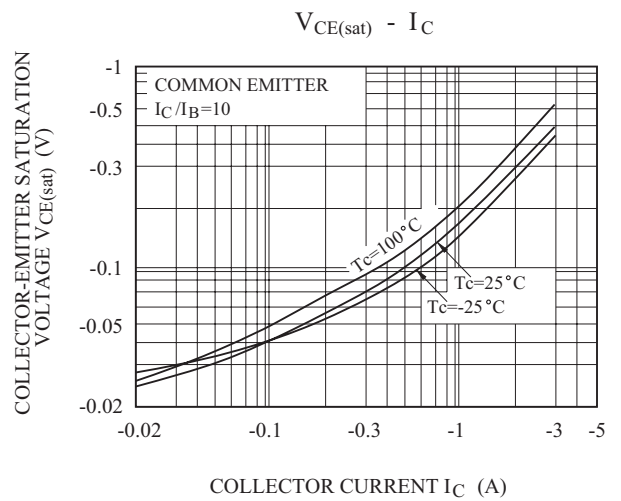
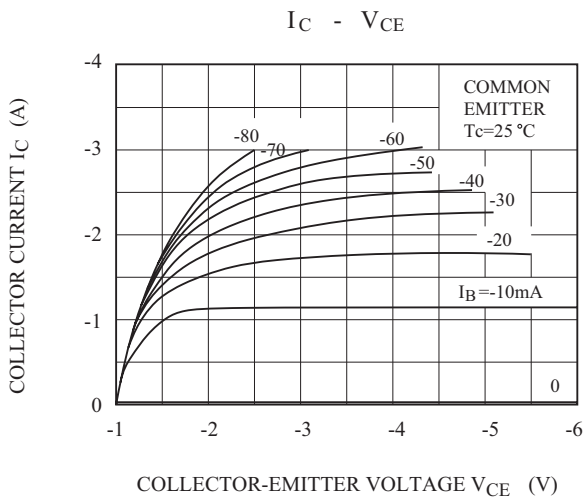


### ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CBO}$	$V_{CB} = -60V, I_E = 0$	-	-	-1	$\mu A$
Emitter Cut-off Current		$I_{EBO}$	$V_{EB} = -7V, I_C = 0$	-	-	-1	$\mu A$
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C = -50mA, I_B = 0$	-60	-	-	V
DC Current Gain		$h_{FE(1)}$ (Note)	$V_{CE} = -5V, I_C = -0.5A$	100	-	300	
		$h_{FE(2)}$	$V_{CE} = -5V, I_C = -3A$	20	-	-	
Collector Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C = -2A, I_B = -0.2A$	-	-0.25	-1.0	V
Base-Emitter Voltage		$V_{BE}$	$V_{CE} = -5V, I_C = -0.5A$	-	-0.7	-1.0	V
Transition Frequency		$f_T$	$V_{CE} = -5V, I_C = -0.5A$	-	30	-	MHz
Collector Output Capacitance		$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	45	-	pF
Switching Time	Turn-on Time	$t_{on}$	<p><math>I_{B1} = I_{B2} = 0.2A</math> DUTY CYCLE <math>\leq 1\%</math></p>	-	0.4	-	$\mu S$
	Storage Time	$t_{stg}$		-	1.7	-	
	Fall Time	$t_f$		-	0.5	-	

Note :  $h_{FE(1)}$  Classification Y:100~200, GR:150~300.

# KTA1040D/L



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