

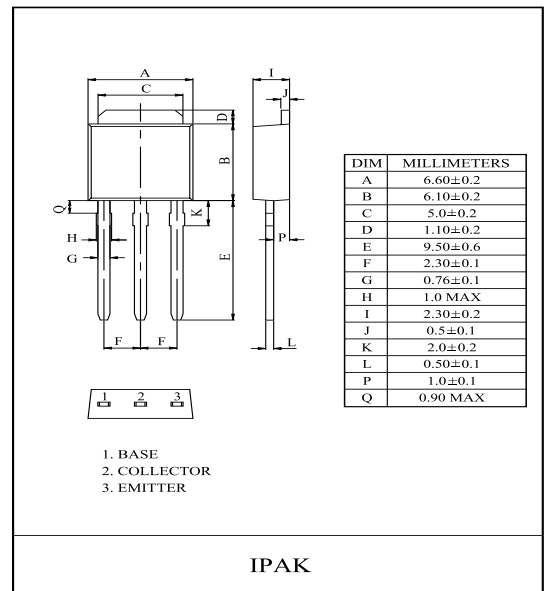
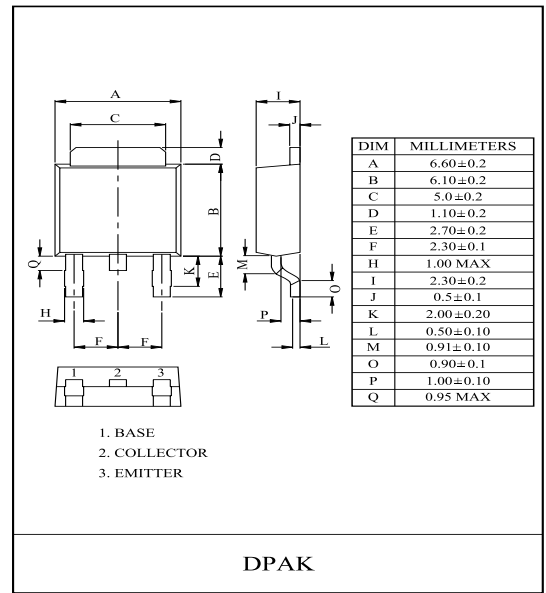
GENERAL PURPOSE APPLICATION.
DPAK FOR SURFACE MOUNT APPLICATIONS.

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 °C)

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 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB} = -60V, I_E = 0$	-	-	-100	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB} = -7V, I_C = 0$	-	-	-100	μA
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}		-	0.4	-	μs
	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

