

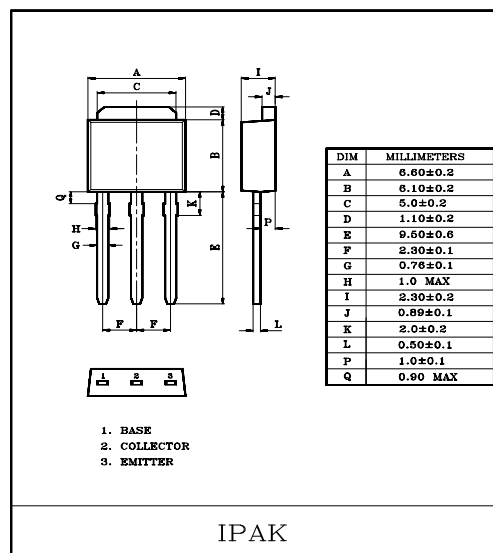
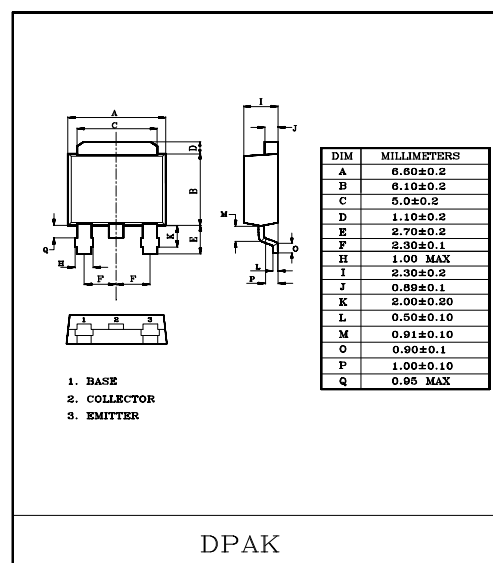
GENERAL PURPOSE APPLICATION.
DPAK FOR SVRFACE MOUNT APPLICATIONS.

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 KTA1040D/L.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

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	$T_a=25^\circ\text{C}$	P_C	W
	$T_c=25^\circ\text{C}$	20	
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55\sim 150$	$^\circ\text{C}$

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

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	$h_{FE}(\text{Note})$	$V_{CE}=5V$, $I_C=0.5A$	100	—	300	—
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2A$, $I_B=0.2A$	—	0.5	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}	$V_{CB}=10V$, $I_E=0$, $f=1MHz$	—	35	—	pF
Switching Time	Turn-on Time	t_{on}				
	Storage Time	t_{stg}				
	Fall Time	t_f				

Note : h_{FE} Classification Y:100~200, GR:150~300

