

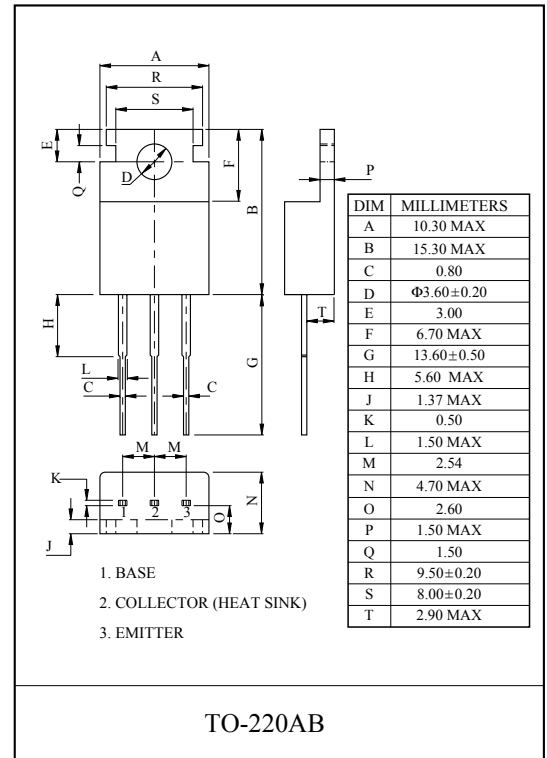
GENERAL PURPOSE APPLICATION.

FEATURES

- Low Collector Saturation Voltage
: $V_{CE(sat)} = -1.0V(\text{Max.})$ at $I_C = -3A, I_B = -0.3A$.
- Collector Power Dissipation
: $P_C = 30W$ ($T_c = 25^\circ C$).
- Complementary to KTD1351.

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

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	$T_a = 25^\circ C$	P_C	2.0	W
	$T_c = 25^\circ C$		30	
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}	$V_{CB} = -60V, I_E = 0$	-	-	-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)	$V_{CE} = -5V, I_C = -0.5A$	60	-	300	
		$h_{FE(2)}$	$V_{CE} = -5V, I_C = -3A$	20	-	-	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C = -3A, I_B = -0.3A$	-	-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	$V_{CE} = -5V, I_C = -0.5A$	-	9	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	150	-	pF
Switching Time	Turn-on Time	t_{on}	<p style="text-align: center;"> I_{B1} I_{B2} $20\mu sec$ $-I_{B1} = I_{B2} = 0.2A$ DUTY CYCLE $\leq 1\%$ </p>	-	0.4	-	μS
	Storage Time	t_{stg}		-	1.7	-	
	Fall Time	t_f		-	0.5	-	

Note : $h_{FE(1)}$ Classification O:60 ~ 120 , Y:100 ~ 200 , GR:150 ~ 300

