

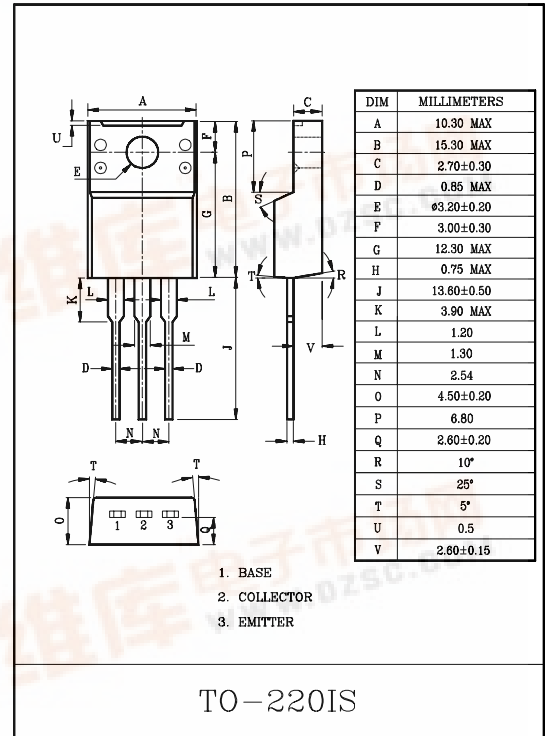
SWITCHING APPLICATIONS.
HAMMER DRIVER, PULSE MOTOR DRIVER
APPLICATIONS.

FEATURES

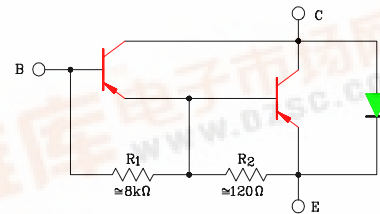
- High DC Current Gain : $h_{FE}=1000(\text{Min.})$ at $V_{CE}=-3\text{V}$, $I_C=-3\text{A}$.
- High Collector Breakdown Voltage : $V_{CEO}=-120\text{V}$ (Min.)
- Complementary to KTD1413.

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-120	V
Collector-Emitter Voltage		V_{CEO}	-120	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-5	A
	Pulses		-8	
Base Current		I_B	-0.12	A
Collector Power Dissipation ($T_C=25^\circ\text{C}$)		P_C	30	W
Junction Temperature		T_j	150	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-55~150	$^\circ\text{C}$



EQUIVALENT CIRCUIT



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=-100\text{V}$, $I_E=0$	-	-	-1	mA
Emitter Cut-off Current	I_{EBO}	$V_{BE}=-5\text{V}$, $I_C=0$	-	-	-2	mA
Collector-Emitter Breakdown Voltage	V_{CEO}	$I_C=-10\text{mA}$, $I_B=0$	-120	-	-	V
DC Current Gain	$h_{FE}(1)$	$V_{CE}=-3\text{V}$, $I_C=-0.5\text{A}$	1000	-	-	
	$h_{FE}(2)$	$V_{CE}=-3\text{V}$, $I_C=-3\text{A}$	1000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat) 1}$	$I_C=-3\text{A}$, $I_B=-12\text{mA}$	-	-	-2	V
	$V_{CE(sat) 2}$	$I_C=-5\text{A}$, $I_B=-20\text{mA}$	-	-	-4	
Base-Emitter Voltage	V_{BE}	$V_{CE}=-3\text{V}$, $I_C=-3\text{A}$	-	-	-2.5	V
Output Capacitance	C_{ob}	$V_{CB}=-10\text{V}$, $I_E=0$, $f=1\text{MHz}$	-	-	300	pF

KTB1423

