

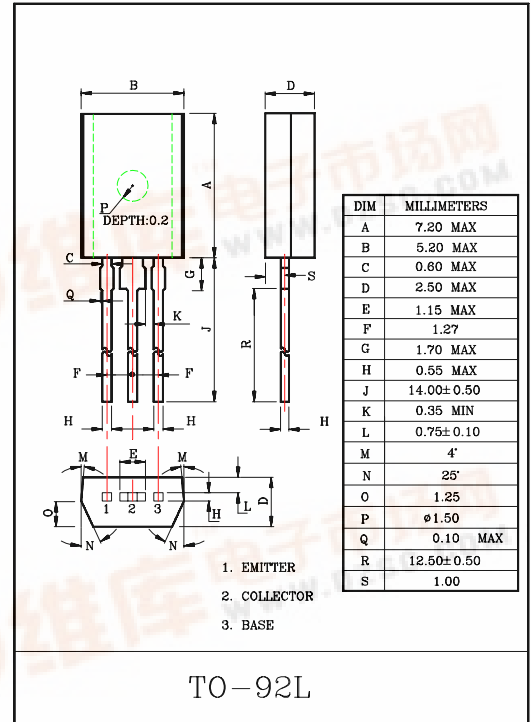
HIGH CURRENT APPLICATION.

FEATURE

- Complementary to KTA1273.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	2	A
Emitter Current	I_E	-2	A
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}\text{C}$

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$	-	-	100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	30	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1\text{mA}, I_C=0$	5	-	-	V
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=2\text{V}, I_C=500\text{mA}$	100	-	320	
Collector-Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C=1.5\text{A}, I_B=0.03\text{A}$	-	-	2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=2\text{V}, I_C=500\text{mA}$	-	-	1.0	V
Transition Frequency	f_T	$V_{CE}=2\text{V}, I_C=500\text{mA}$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	13	-	pF

Note : h_{FE} Classification O:100~200, Y:160~320

KTC3205

