

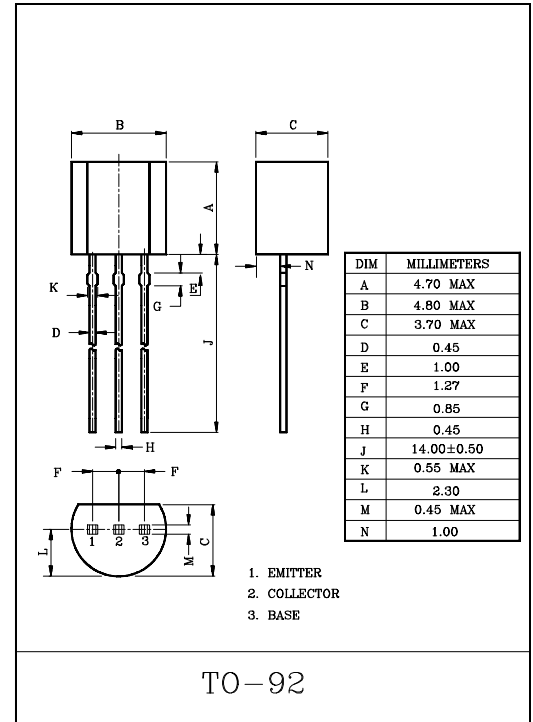
HIGH CURRENT APPLICATION.

### FEATURE

- Complementary to KTA1283.

### MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	40	V
Collector-Emitter Voltage	$V_{CEO}$	25	V
Emitter-Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	1.5	A
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55~150	°C



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=35V, I_B=0$	-	-	100	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=6V, I_C=0$	-	-	100	nA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_B=0$	40	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=2mA, I_B=0$	25	-	-	V
DC Current Gain	$h_{FE}(1)$	$V_{CE}=1V, I_C=5mA$	45	135	-	
	$h_{FE}(2)$ (Note)	$V_{CE}=1V, I_C=100mA$	85	160	300	
	$h_{FE}(3)$	$V_{CE}=1V, I_C=800mA$	40	110	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=800mA, I_B=80mA$	-	0.28	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=800mA, I_B=80mA$	-	0.98	1.2	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=1V, I_C=10mA$	-	0.66	1.0	V
Transition Frequency	$f_T$	$V_{CE}=10V, I_C=50mA$	100	190	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, f=1MHz, I_B=0$	-	9	-	pF

Note :  $h_{FE}(2)$  Classification O:85~160 , Y:120~200 , GR:160~300

# KTC3211

