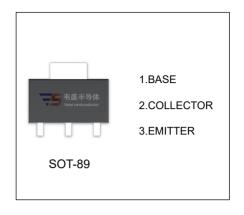


# KTC3205 TRANSISTOR (NPN)

#### **FEATURES**

- High current application
- Complementary to KTA1273



#### MAXIMUM RATINGS(Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V <sub>CBO</sub>	Collector-Base Voltage	30	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	30	V	
V <sub>EBO</sub>	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	2	А	
Pc	Collector Dissipation	0.5	W	
T <sub>J</sub> ,T <sub>stg</sub>	peration Junction and Storage Temperature Range -55~150 °C		°C	

## ELECTRICAL CHARACTERISTICS (Ta= 25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	I <sub>C</sub> = 1mA , I <sub>E</sub> =0	30			V
Collector-emitter breakdown voltage	V(BR)CEO	I <sub>C</sub> = 10mA, I <sub>B</sub> =0	30			V
Emitter-base breakdown voltage	V(BR)EBO	I <sub>E</sub> = 1mA, I <sub>C</sub> =0	5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 30V, I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> =0			0.1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 2 V, I <sub>C</sub> = 500 mA	100		320	
Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> = 1.5A, I <sub>B</sub> = 30 mA			2.0	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> = 500mA			1.0	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> = 500mA		120		MHz
Collector Output Capacitance	C <sub>ob</sub>	$V_{CB}$ =10V, $I_{E}$ =0V, $f$ =1MH $_{Z}$		13		pF

### **CLASSIFICA TION OF h**<sub>FE</sub>

Rank	0	Υ		
Range	100-200	160-320		



