

### KTC3202 TRANSISTOR (NPN)

#### FEATURES

Power dissipation

$P_{CM}$ : 0.625 W ( $T_{amb}=25^{\circ}C$ )

Collector current

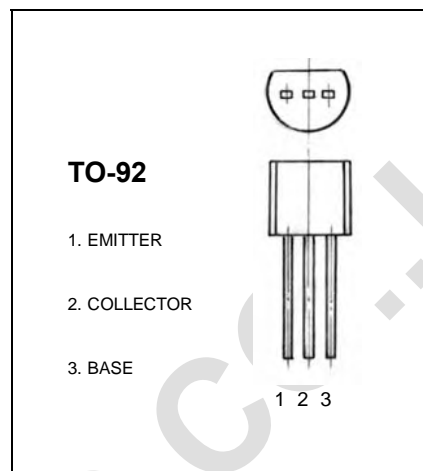
$I_{CM}$ : 0.5 A

Collector-base voltage

$V_{(BR)CBO}$ : 35 V

Operating and storage junction temperature range

$T_J, T_{stg}$ :  $-55^{\circ}C$  to  $+150^{\circ}C$



#### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-BASE breakdown voltage	$V_{(BR)CBO}$	$I_C = 0.1mA, I_B = 0$	35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 1mA, I_B = 0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 0.1mA, I_C = 0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = 35V, I_E = 0$			0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$			0.1	$\mu A$
DC current gain	$h_{FE1}$	$V_{CE} = 1V, I_C = 100mA$	70		240	
	$h_{FE2}$	$V_{CE} = 6V, I_C = 400mA$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100mA, I_B = 10mA$		0.1	0.25	V
Base-Emitter Saturation Voltage	$V_{BE}$	$V_{CE} = 1V, I_C = 100mA$		0.8	1.0	V
Transition frequency	$f_T$	$V_{CE} = 6V, I_C = 20mA$		200		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = 6V, I_E = 0, f = 1MHz$		7.0		pF

#### CLASSIFICATION OF $h_{FE(1)}$

Rank	O	Y
Range	70-140	120-240