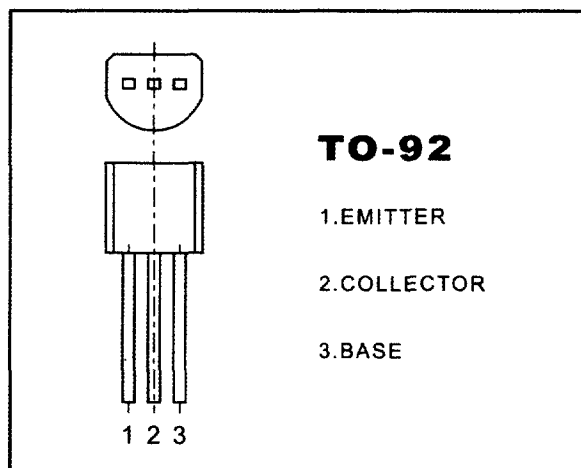


# TO-92 Plastic-Encapsulate Transistors

## KTC3198 TRANSISTOR(NPN)



### FEATURES

**Power dissipation**

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

**Collector current**

$I_{CM}$ : 0.15 A

**Collector-base voltage**

$V_{(BR)CBO}$ : 60 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)

<b>Collector-base breakdown voltage</b>	$V_{(BR)CBO}$	$I_C = 100 \mu A, I_E = 0$	60			V
<b>Collector-emitter breakdown voltage</b>	$V_{(BR)CEO}$	$I_C = 1 mA, I_B = 0$	50			V
<b>Emitter-base breakdown voltage</b>	$V_{(BR)EBO}$	$I_E = 100 \mu A, I_C = 0$	5			V
<b>Collector cut-off current</b>	$I_{CBO}$	$V_{CB} = 60 V, I_E = 0$			0.1	$\mu A$
<b>Emitter cut-off current</b>	$I_{EBO}$	$V_{EB} = 5 V, I_C = 0$			0.1	$\mu A$
<b>DC current gain</b>	$h_{FE(1)}$	$V_{CE} = 6 V, I_C = 2 mA$	70		700	
	$h_{FE(2)}$	$V_{CE} = 6 V, I_C = 150 mA$	25	100		
<b>Collector-emitter saturation voltage</b>	$V_{CEsat}$	$I_C = 100 mA, I_B = 10 mA$		0.1	0.25	V
<b>Base-emitter saturation voltage</b>	$V_{BEsat}$	$I_C = 100 mA, I_B = 10 mA$			1	V
<b>Transition frequency</b>	$f_T$	$V_{CE} = 10 V, I_C = 1 mA$ $f = 30 MHz$	80			MHz

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

Rank	O	Y	GR	BL
Range	70-140	120-240	200-400	350-700

Typical Characteristics

KTC3198

