

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

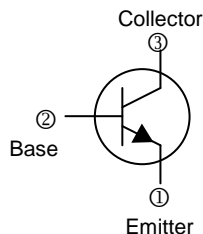
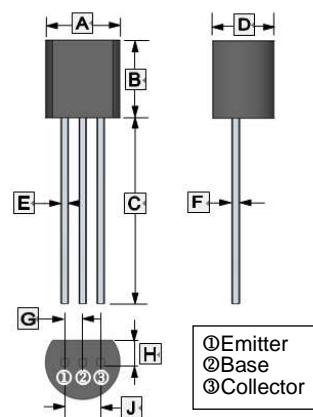
**FEATURE**

- $V_{(BR)CBO}=60V$

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

Product-Rank	KTC3198-O	KTC3198-Y	KTC3198-GR
Range	70~140	120~240	200~400

**TO-92**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.70	F	0.30	0.51
B	4.30	4.70	G	1.27 TYP.	
C	12.70	-	H	1.10	1.40
D	3.30	3.81	J	2.42	2.66
E	0.36	0.56	K	0.36	0.76

**ABSOLUTE MAXIMUM RATINGS** ( $T_A=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector Current	$I_{CM}$	150	mA
Power Dissipation	$P_{CM}$	625	mW
Junction, Storage Temperature	$T_J, T_{STG}$	125, -55~125	$^\circ C$

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	60	-	-	V	$I_C=100\mu A, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	50	-	-	V	$I_C=5mA, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=100\mu A, I_C=0$
Collector Cut-Off Current	$I_{CBO}$	-	-	0.1	$\mu A$	$V_{CB}=60V, I_E=0$
Emitter Cut-Off Current	$I_{EBO}$	-	-	0.1	$\mu A$	$V_{EB}=5V, I_C=0$
DC Current Gain	$h_{FE}$	70	-	400		$V_{CE}=6V, I_C=2mA$
		25	100	-		$V_{CE}=6V, I_C=150mA$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	0.1	0.25	V	$I_C=100mA, I_B=10mA$
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	1	V	$I_C=100mA, I_B=10mA$
Transition Frequency	$f_T$	80	-	-	MHz	$V_{CE}=10V, I_C=1mA, f=30MHz$

**CHARACTERISTIC CURVES**

