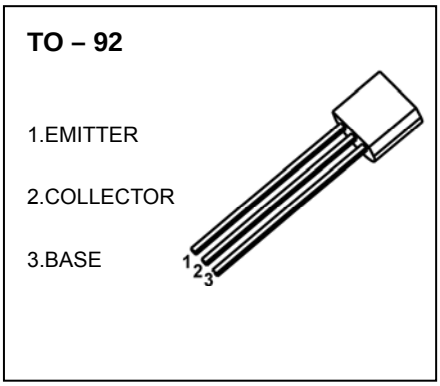
TIGER ELECTRONIC CO.,LTD

TO-92 Plastic-Encapsulate Transistors

KTC3198 TRANSISTOR (NPN)



FEATURES

- General Purpose Switching Application
- Complementary to KTA1266.

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbo	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	0.15	A
P_C	Collector Power Dissipation	0.625	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	℃/W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~+150	℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C= 0.1mA ,I_E=0	60			V
Collector-emitter breakdown voltage	$V_{(BR)\ CEO}$	I_C=5mA,I_B=0	50			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}=60V,I_E=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=5V,I_C=0			0.1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=6V, I_C=2mA	70		700	
	$h_{FE(2)}$	V_{CE}=6V, I_C=150mA	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=100mA,I_B=10mA			0.25	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=100mA,I_B=10mA			1	V
Transition frequency	f_T	V_{CE}=10V,I_C=1mA	80			MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V, I_E=0, f=1MHz			3.5	pF

CLASSIFICATION OF $h_{FE(1)}$

RANK	O	Y	GR	BL
RANGE	70-140	120-240	200-400	300-700

A,Dec,2010