查询KTC3198L供应商 捷多邦，专业PCB打样工厂，24小时加急出货

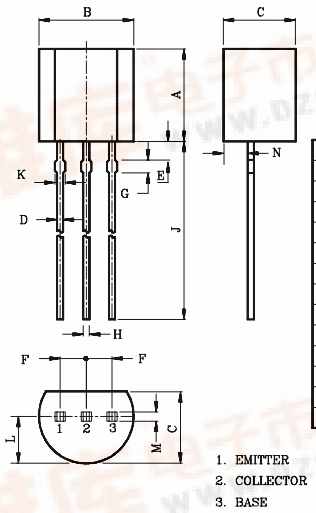
KEL
KOREA ELECTRONICS CO.,LTD.

SEMICONDUCTOR
TECHNICAL DATA

KTC3198L
EPITAXIAL PLANAR NPN TRANSISTOR

LOW NOISE AMPLIFIER APPLICATION.

FEATURES
- Excellent Linearity of h_{FE}
  : $h_{FE}(2)$=100(Typ.) at V_{CE}=6V, I_C=150mA
  : $h_{FE}(I_C$=0.1mA)/$h_{FE}(I_C$=2mA)=0.95(Typ.).
- Low Noise : NF=0.2dB(Typ.) at (f=1kHz).
- Complementary to KTA1266L. (O,Y,GR class).



DIM	MILLIMETERS
A	4.70 MAX
B	4.80 MAX
C	3.70 MAX
D	0.45
E	1.00
F	1.27
G	0.85
H	0.45
J	14.00±0.50
K	0.55 MAX
L	2.30
M	0.45 MAX
N	1.00

TO-92

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	150	mA
Emitter Current	I_E	-150	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55~150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
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		$h_{FE}(1)$ (Note)	V_{CE}=6V, I_C=2mA	70	-	700	
		$h_{FE}(2)$	V_{CE}=6V, I_C=150mA	25	100	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	I_C=100mA, I_B=10mA	-	0.1	0.25	V
	Base-Emitter	$V_{BE(sat)}$	I_C=100mA, I_B=10mA	-	-	1.0	
Transition Frequency		f_T	V_{CE}=10V, I_C=10mA	80	-	-	MHz
Collector Output Capacitance		C_{ob}	V_{CB}=10V, I_E=0, f=1MHz	-	2.0	3.0	pF
Base Intrinsic Resistance		rbb′	V_{CB}=10V, I_E=-1mA, f=30MHz	-	50	-	Ω
Noise Figure		NF(1)	V_{CE}=6V, I_C=0.1mA, Rg=10kΩ, f=100Hz	-	0.5	6.0	dB
		NF(2)	V_{CE}=6V, I_C=0.1mA Rg=10kΩ, f=1kHz	-	0.2	3.0	

Note) $h_{FE}(1)$ Classification O : 70~140, Y : 120~240, GR : 200~400, BL : 300~700

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