查询KTD1304供应商 捷多邦，专业PCB打样工厂，24小时加急出货

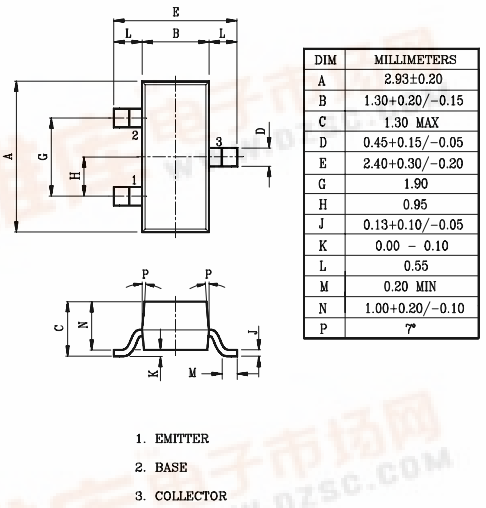
KEL
KOREA ELECTRONICS CO.,LTD.

SEMICONDUCTOR
TECHNICAL DATA

KTD1304
EPITAXIAL PLANAR NPN TRANSISTOR

AUDIO MUTING APPLICATION.

FEATURES
- High Emitter-Base Voltage : V_{EBO}=12V(Min.).
- High Reverse h_{FE}
  : Reverse h_{FE}=20(Min.) (V_{CE}=2V, I_C=4mA).
- Low on Resistance : R_{ON}=0.6Ω(Max.) (I_B=1mA).



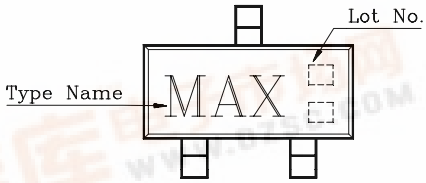
DIM	MILLIMETERS
A	2.93±0.20
B	1.30+0.20/−0.15
C	1.30 MAX
D	0.45+0.15/−0.05
E	2.40+0.30/−0.20
G	1.90
H	0.95
J	0.13+0.10/−0.05
K	0.00 − 0.10
L	0.55
M	0.20 MIN
N	1.00+0.20/−0.10
P	7°

SOT-23

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	25	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EB0}	12	V
Collector Current	I_C	300	mA
Base Current	I_B	30	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55~150	℃

Marking



ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=25V, I_E=0	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=12V, I_C=0	-	-	0.1	μA
DC Current Gain	$h_{FE}1$ (FOR)	V_{CE}=2V, I_C=4mA	200	-	800	
	$h_{FE}2$ (REV)	V_{CE}=2V, I_C=4mA	20	-	-	
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	-	60	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V, I_E=0, f=1MHz	-	10	-	pF
On Resistance	R_{on}	f=1KHz, I_B=1mA, V_{in}=0.3V	-	0.6	-	Ω

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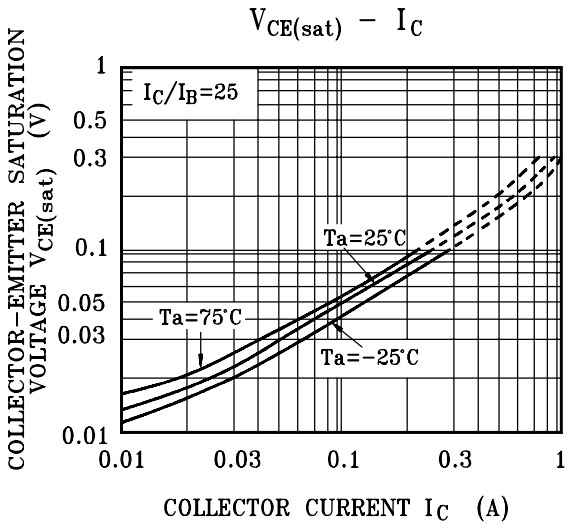
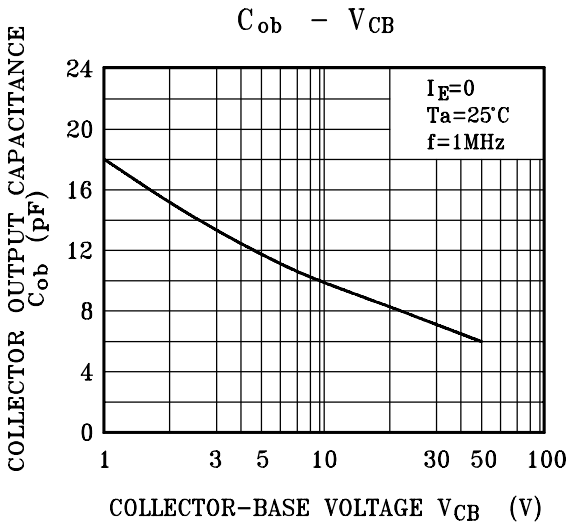
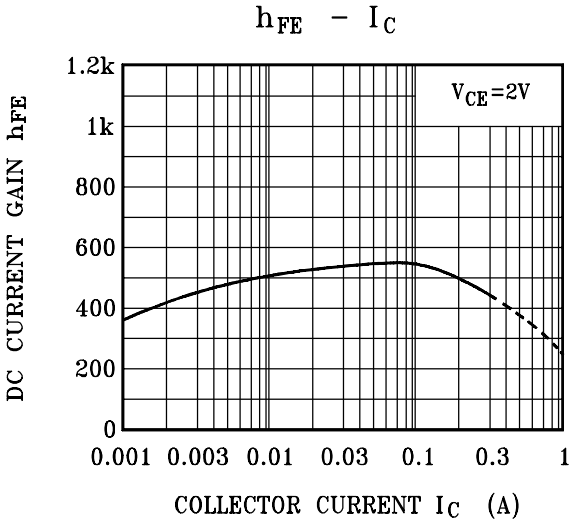
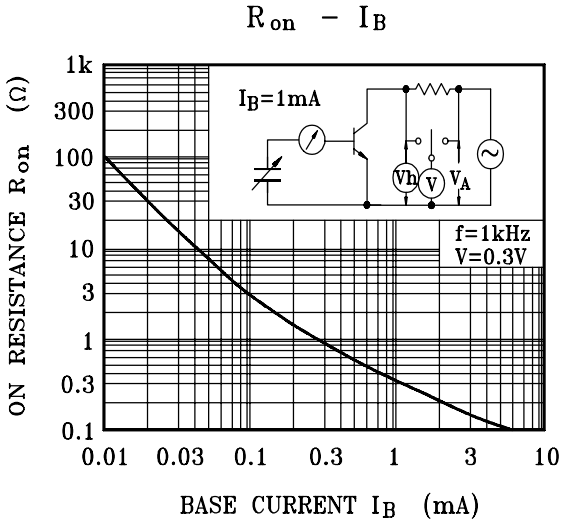

VCE(sat) – IC
IC/IB=25
Ta=25°C
Ta=75°C
Ta=−25°C
COLLECTOR−EMITTER SATURATION VOLTAGE VCE(sat) (V)
1
0.5
0.3
0.1
0.05
0.03
0.01
0.01
0.03
0.1
0.3
1
COLLECTOR CURRENT IC (A)


Cob – VCB
IE=0
Ta=25°C
f=1MHz
COLLECTOR OUTPUT CAPACITANCE Cob (pF)
24
20
16
12
8
4
0
1
3
5
10
30
50
100
COLLECTOR−BASE VOLTAGE VCB (V)


hFE – IC
VCE=2V
DC CURRENT GAIN hFE
1.2k
1k
800
600
400
200
0
0.001
0.003
0.01
0.03
0.1
0.3
1
COLLECTOR CURRENT IC (A)


Ron – IB
IB=1mA
f=1kHz
V=0.3V
ON RESISTANCE Ron (Ω)
1k
300
100
30
10
3
1
0.3
0.1
0.01
0.03
0.1
0.3
1
3
10
BASE CURRENT IB (mA)