KTA1572

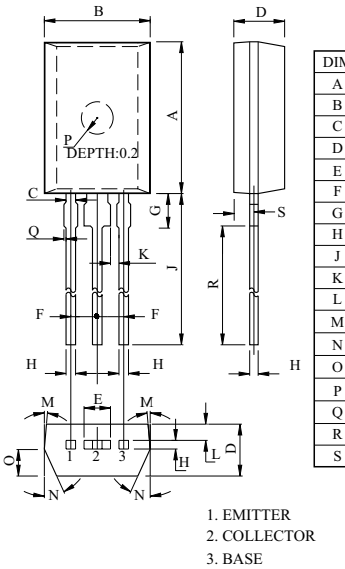
EPITAXIAL PLANAR PNP TRANSISTOR

FEATURE

· Low Collector-Emitter Saturation Voltage $V_{CE(sat)}$.

· High Collector Current Capability : I_C and I_{CP}.

· Higher Efficiency Leading to Less Heat Generation.



DIM	MILLIMETERS
A	7.20 MAX
B	5.20 MAX
C	0.60 MAX
D	2.50 MAX
E	1.15 MAX
F	1.27
G	1.70 MAX
H	0.55 MAX
J	14.00±0.50
K	0.35 MIN
L	0.75±0.10
M	4°
N	25°
O	1.25
P	Φ1.50
Q	0.10 MAX
R	12.50±0.50
S	1.00

TO-92L

MAXIMUM RATING (Ta=25℃)

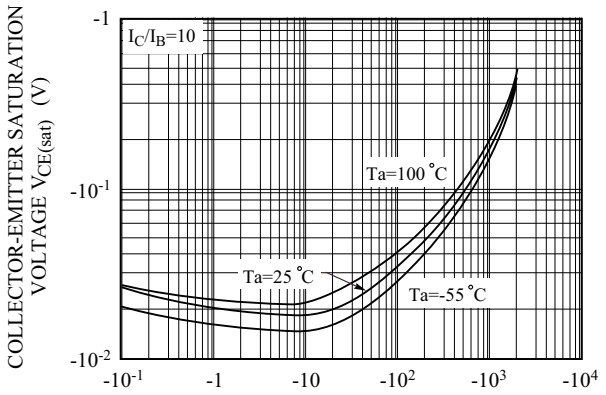
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-120	V
Collector-Emitter Voltage		V_{CEO}	-100	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-1	A
	Pulse	I_{CP}	-3	
Base Current		I_B	-300	mA
Collector Power Dissipation		P_C	1	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

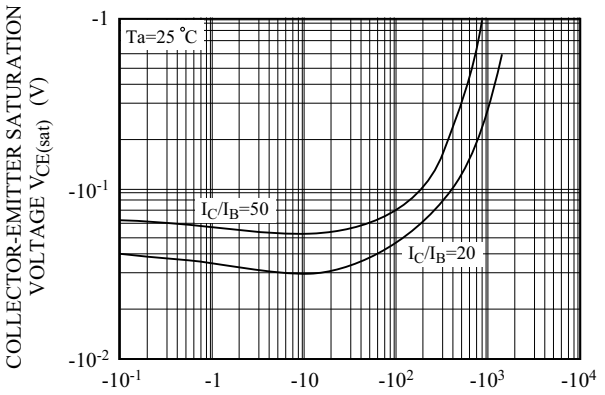
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=-100㎂	-120	-	-	V
Collector-Emitter Breakdown Voltage **	$V_{(BR)CEO}$	I_C=-1mA	-100	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=-100㎂	-5	-	-	V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-80V, I_E=0A	-	-	-100	nA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-4V, I_C=0A	-	-	-100	nA
Collector-Emitter Cut-Off Current	I_{CES}	V_{CES}=-80V, V_{BE}=0V	-	-	-100	nA
Collector-Emitter Saturation Voltage **	$V_{CE(sat)}$ (1)	I_C=-250mA, I_B=-25mA	-	-	-0.12	V
	$V_{CE(sat)}$ (2)	I_C=-500mA, I_B=-50mA	-	-	-0.18	
	$V_{CE(sat)}$ (3)	I_C=-1A, I_B=-100mA	-	-	-0.32	
Base-Emitter Saturation Voltage **	$V_{BE(sat)}$	I_C=-1A, I_B=-100mA	-	-	-1.1	V
Base-Emitter Voltag	V_{BE}	V_{CE}=-5V, I_C=-1A	-	-	-1.0	V
DC Current Gain **	h_{FE}(1)	V_{CE}=-5V, I_C=-1mA	150	-	-	
	h_{FE}(2)	V_{CE}=-5V, I_C=-250mA	150	-	-	
	h_{FE}(3)	V_{CE}=-5V, I_C=-500mA	150	-	450	
	h_{FE}(4)	V_{CE}=-5V, I_C=-1A	125	-	-	
Transition Frequency	f_T	V_{CE}=-10V, I_C=-50mA, f=100MHz	100	-	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-10V, f=1MHz	-	17	-	pF

** Pulse Width = 300㎲, Duty Cycle ≤2%.

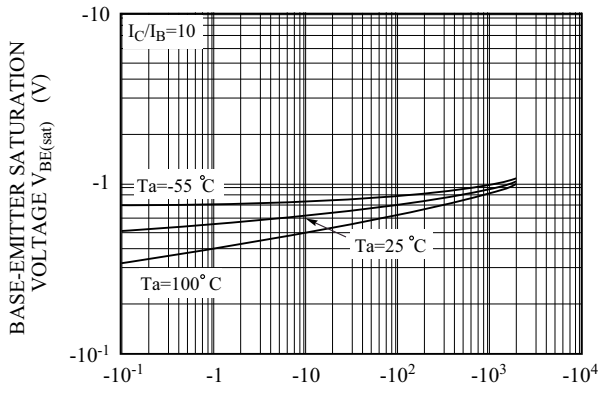
$V_{CE(sat)}$ - I_C



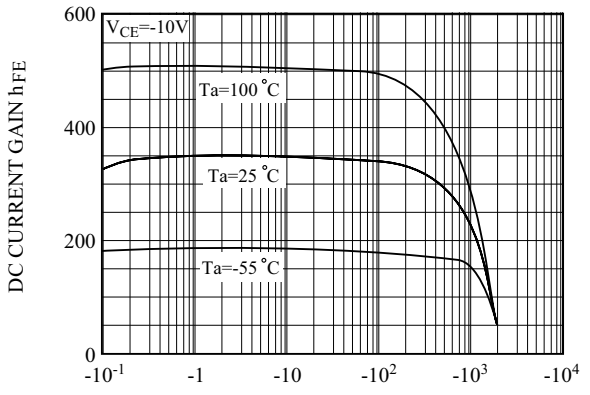
$V_{CE(sat)}$ - I_C



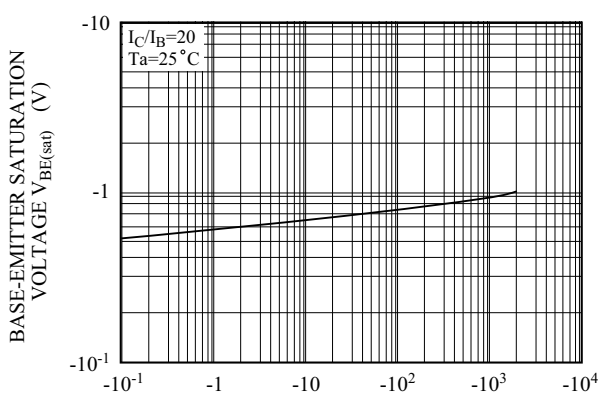
$V_{BE(sat)}$ - I_C



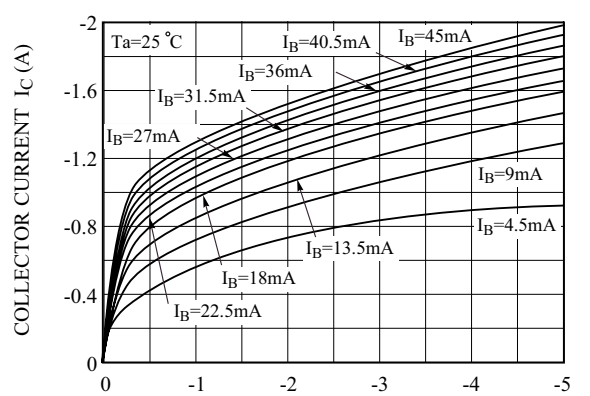
h_{FE} - I_C



$V_{BE(sat)}$ - I_C



I_C - V_{CE}



SAFE OPERATING AREA