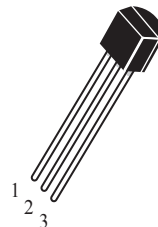


PNP General Purpose Transistors

(Pb) Lead(Pb)-Free

TO-92

1. EMITTER
2. BASE
3. COLLECTOR



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	-25	V _{dc}
Collector-Base Voltage	V _{CBO}	-40	V _{dc}
Emitter-Base Voltage	V _{EBO}	-5	V _{dc}
Collector Current	I _C	-500	mA _{dc}
Total Device Dissipation T _A =25°C	P _{CM}	0.625	W
Junction Temperature	T _j	150	°C
Storage, Temperature	T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage (I _C = -1.0 mA _{dc} , I _B =0)	V _{(BR)CEO}	-25	-	V _{dc}
Collector-Base Breakdown Voltage (I _C = -100 uA _{dc} , I _E =0)	V _{(BR)CBO}	-40	-	V _{dc}
Emitter-Base Breakdown Voltage (I _E = -100 uA _{dc} , I _C =0)	V _{(BR)EBO}	-5	-	V _{dc}
Collector Cutoff Current (V _{CE} = -20 V _{dc} , I _B =0)	I _{CE0}	-	-0.1	uA _{dc}
Collector Cutoff Current (V _{CB} = -40 V _{dc} , I _E =0)	I _{CBO}	-	-0.1	uA _{dc}
Emitter Cutoff Current (V _{EB} = -5.0V _{dc} , I _C =0)	I _{EBO}	-	-0.1	uA _{dc}

S9012**WEITRON****Electrical Characteristics** ($T_A=25^\circ\text{C}$ unless otherwise noted) (Continued)

Characteristics	Symbol	Min	Max	Unit
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On Characteristics

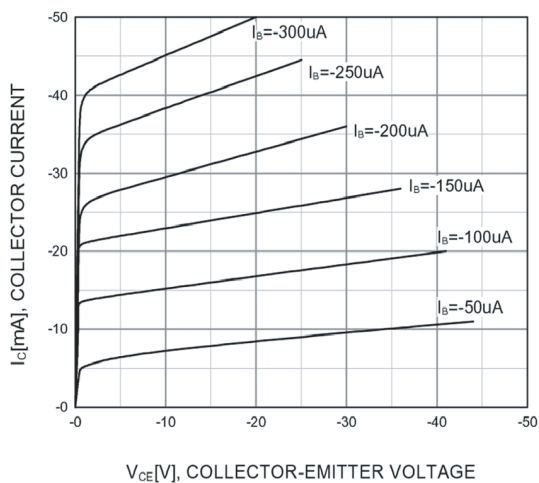
DC Current Gain $(I_C = -50\text{ mAdc}, V_{CE} = -1\text{Vdc})$ $(I_C = -500\text{ mAdc}, V_{CE} = -1\text{Vdc})$	$h_{FE(1)}$	64	300	-
	$h_{FE(2)}$	40	-	
Collector-Emitter Saturation Voltage $(I_C = 500\text{ mAdc}, I_B = -50\text{ mAdc})$	$V_{CE(sat)}$	-	-0.6	Vdc
Base-Emitter Saturation Voltage $(I_C = 500\text{ mAdc}, I_B = -50\text{ mAdc})$	$V_{BE(sat)}$	-	-1.2	Vdc
Transition frequency	f_T	150	-	MHz

Classification Of $h_{FE(1)}$

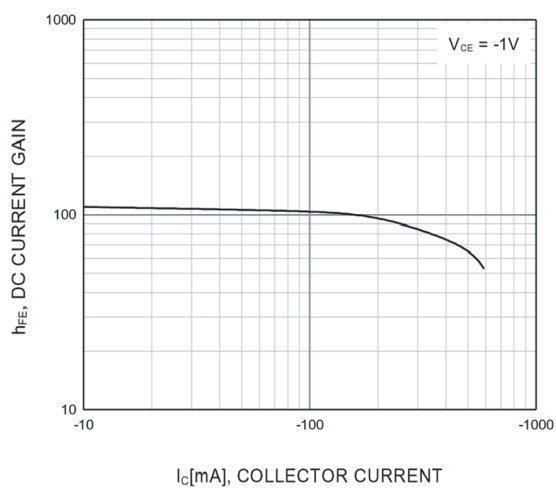
Rank	D	E	F	G	H	I
Range	64-91	78-112	96-135	112-166	144-202	190-300

WEITRON
<http://www.weitron.com.tw>

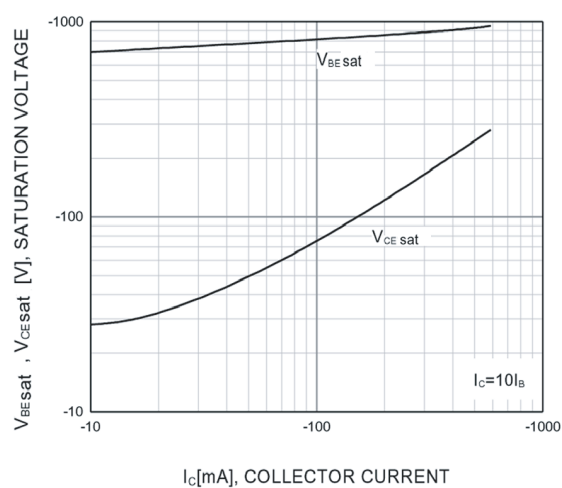
Typical Characteristics



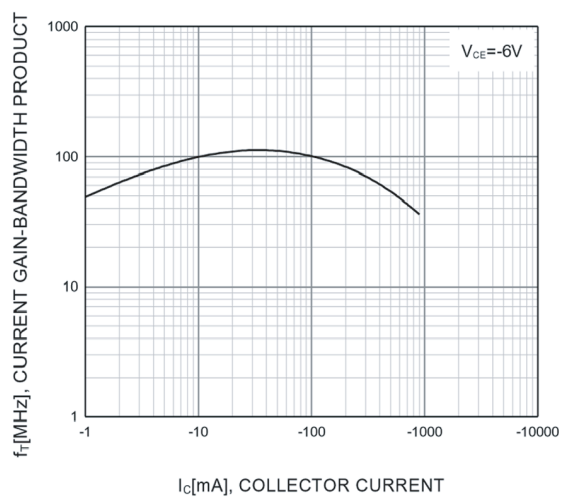
Static Characteristic



DC current Gain



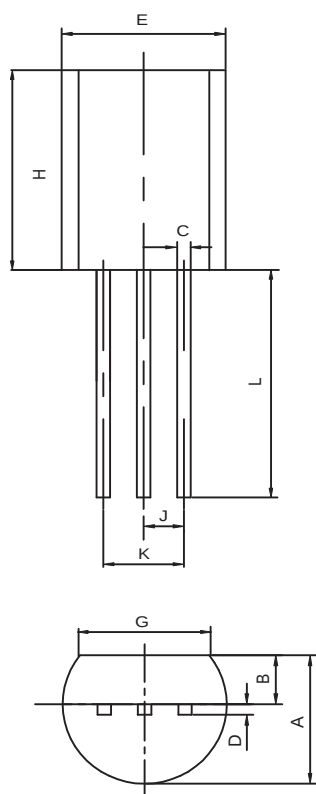
**Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage**



Current Gain Bandwidth Product

TO-92 Outline Dimensions

unit:mm



TO-92		
Dim	Min	Max
A	3.30	3.70
B	1.10	1.40
C	0.38	0.55
D	0.36	0.51
E	4.40	4.70
G	3.43	-
H	4.30	4.70
J	1.270TYP	
K	2.44	2.64
L	14.10	14.50