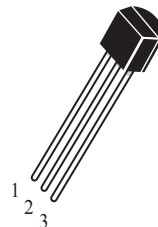


PNP General Purpose Transistors

 Lead(Pb)-Free

TO-92

1. EMITTER
2. BASE
3. COLLECTOR



ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CE0}	-25	Vdc
Collector-Base Voltage	V_{CBO}	-40	Vdc
Emitter-Base Voltage	V_{EBO}	-5	Vdc
Collector Current	I_C	-500	mAdc
Total Device Dissipation $T_A=25^{\circ}\text{C}$	PCM	0.625	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage, Temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage ($I_C = -1.0\text{ mAdc}$, $I_E = 0$)	$V_{(BR)CEO}$	-25	-	Vdc
Collector-Base Breakdown Voltage ($I_C = -100\text{ uAdc}$, $I_E = 0$)	$V_{(BR)CBO}$	-40	-	Vdc
Emitter-Base Breakdown Voltage ($I_E = -100\text{ uAdc}$, $I_C = 0$)	$V_{(BR)EBO}$	-5	-	Vdc
Collector Cutoff Current ($V_{CE} = -20\text{ Vdc}$, $I_E = 0$)	I_{CE0}	-	-0.1	μAdc
Collector Cutoff Current ($V_{CB} = -40\text{ Vdc}$, $I_E = 0$)	I_{CBO}	-	-0.1	μAdc
Emitter Cutoff Current ($V_{EB} = -5.0\text{ Vdc}$, $I_C = 0$)	I_{EBO}	-	-0.1	μAdc

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

Characteristics	Symbol	Min	Max	Unit
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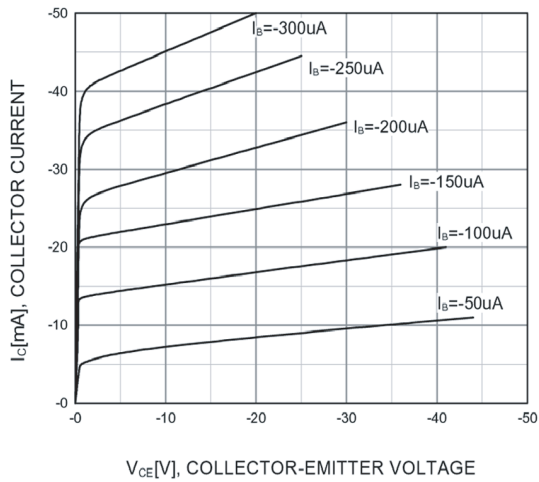
On Characteristics

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

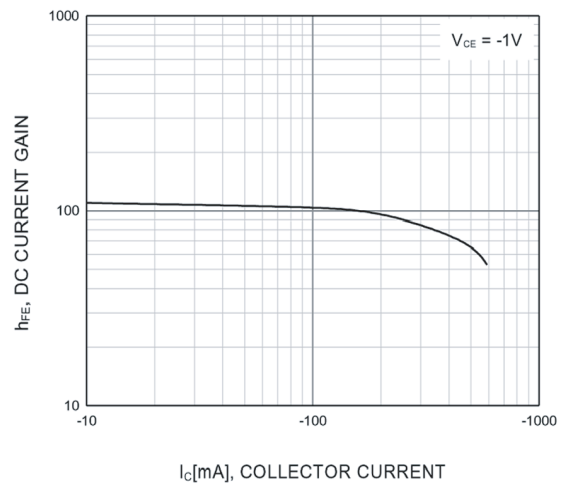
Classification Of $h_{FE(1)}$

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

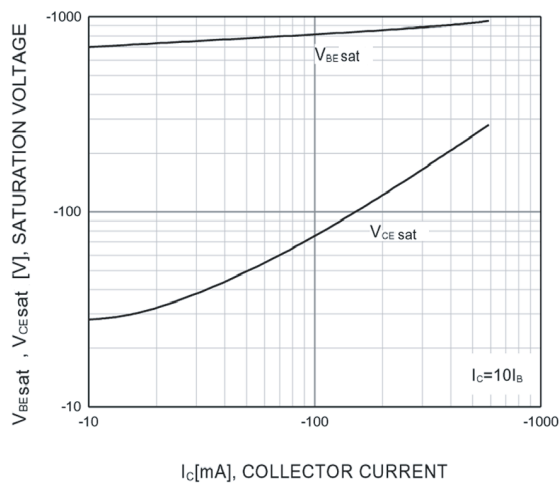
Typical Characteristics



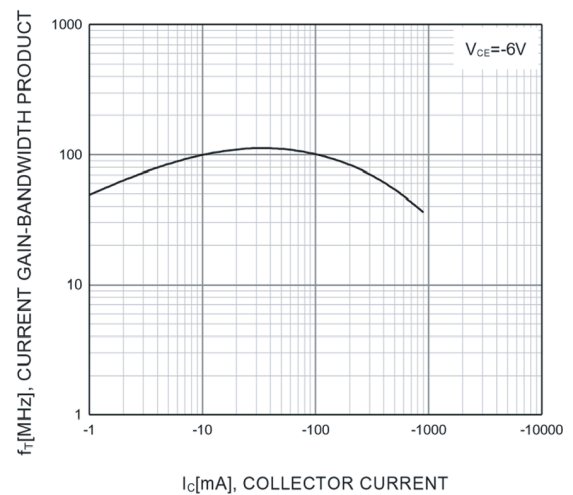
Static Characteristic



DC current Gain



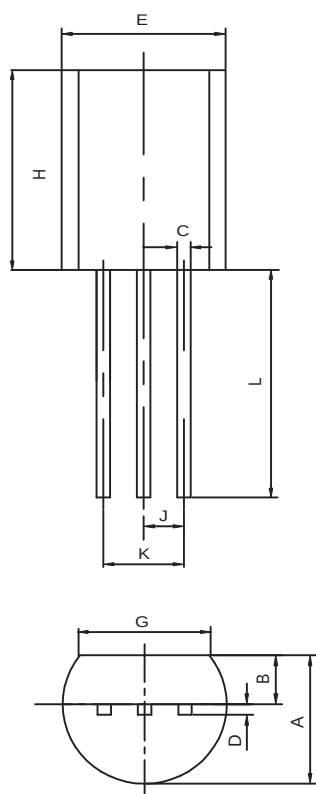
Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage



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