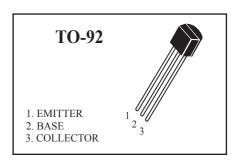




PNP General Purpose Transistors

Pb Lead(Pb)-Free



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	VCEO	-25	Vdc
Collector-Base Voltage	VCBO	-40	Vdc
Emitter-Base Voltage	V _{EBO}	-5	Vdc
Collector Current	IC	-500	mAdc
Total Device Dissipation T _A =25°C	РСМ	0.625	W
Junction Temperature	Tj	150	°C
Storage, Temperature	Tstg	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage (I_C = -1.0 mAdc, I_B =0)	V(BR)CEO	-25	-	Vdc
Collector-Base Breakdown Voltage (I _C = -100 uAdc, I _E =0)	V(BR)CBO	-40	-	Vdc
Emitter-Base Breakdown Voltage (I _E = -100 uAdc, I _C =0)	V(BR)EBO	-5	-	Vdc
Collector Cutoff Current (VCE= -20 Vdc, I _B =0)	ICE0	-	-0.1	uAdc
Collector Cutoff Current (VCB= -40 Vdc, IE=0)	ICBO	-	-0.1	uAdc
Emitter Cutoff Current (VEB= -5.0Vdc, IC=0)	I _{EBO}	-	-0.1	uAdc

S9012



Electrical Characteristics (T_A=25 °C unless otherwise noted) (Countinued)

Characteristics Symbol Min Max Unit

On Characteristics

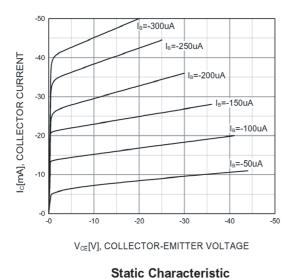
DC Current Gain				
(I _C = -50 mAdc, V _{CE} = -1Vdc) (I _C = -500 mAdc, V _{CE} = -1Vdc)	h _{FE(1)} h _{FE(2)}	64 40	300 -	-
Collector-Emitter Saturation Voltage $(I_{C} = 500 \text{ mAdc}, I_{B} = \text{-}50 \text{ mAdc})$	VCE(sat)	-	-0.6	Vdc
Base-Emitter Saturation Voltage (I _C = 500 mAdc, I _B = -50 mAdc)	VBE(sat)	-	-1.2	Vdc
Transition frequency	fT	150	-	MHz

Classification Of hFE(1)

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

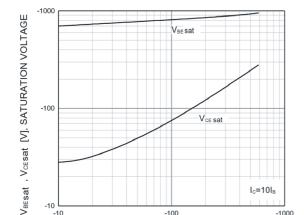


Typical Characteristics



hFE, DC CURRENT GAIN Ic[mA], COLLECTOR CURRENT

DC current Gain

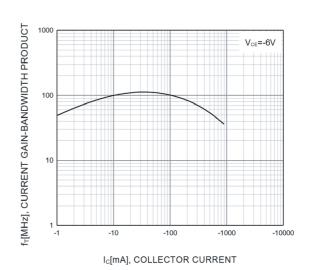


 $I_{\text{C}}[\text{mA}]$, COLLECTOR CURRENT

 I_{C} =10 I_{B}

-1000

Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

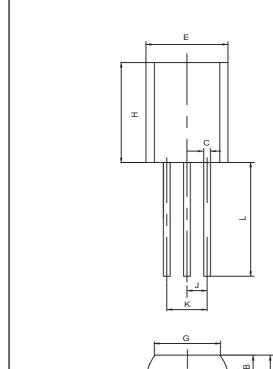


Current Gain Bandwidth Product



TO-92 Outline Dimensions

unit:mm



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