

2N2906A 2N2907A

TO-18 PNP General Purpose Transistor

Switching And Linear Application DC to VHF Amplifier Applications

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL 2N2906A, 07A		UNIT	
0 H .	1/050	00		
Collector -Emitter Voltage	VCEO	60	V	
Collector -Base Voltage	VCBO	60	V	
Emitter -Base Voltage	VEBO	5.0	V	
Collector Current Continuous	IC	600	mA	
Power Dissipation @Ta=25 degC	PD	400	mW	
Derate Above 25deg C		2.28	mW/deg C	
@ Tc=25 degC	PD	1.8	W	
Derate Above 25deg C		10.3	mW/deg C	
Operating And Storage Junction	Tj, Tstg	- 65 to +200	deg C	
Temperature Range		00 10 1200		

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)

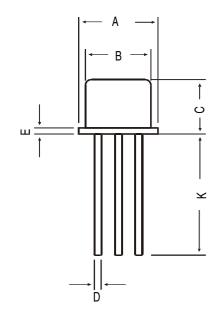
DESCRIPTION	SYMBOL	TEST CONDITION	VALU	JE	
			MIN	MAX	UNIT
Collector -Emitter Voltage	VCEO*	IC=10mA,IB=0	60	_	V
Collector -Base Voltage	VCBO	IC=10uA.IE=0	60	-	V
Emitter-Base Voltage	VEBO	IE=10uA, IC=0	5.0	-	V
Collector-Cut off Current	ICBO	VCB=50V, IE=0	-	10	nA
		Ta=150 deg C			
		VCB=50V, IE=0	-	10	uA
	ICEX	VCE=30V, VBE=0.5V	-	50	nA
Base Current	IB	VCE=30V, VBE=0.5V	-	50	nA
Collector Emitter Saturation Voltage	VCE(Sat)*	IC=150mA,IB=15mA	-	0.4	V
		IC=500mA,IB=50mA		1.6	V
Base Emitter Saturation Voltage	VBE(Sat) *	IC=150mA,IB=15mA	-	1.3	V
		IC=500mA,IB=50mA	-	2.6	V
			2N2906A	2N2907A	
DC Current Gain	hFE	IC=0.1mA,VCE=10V	>40	>75	
		IC=1mA,VCE=10V	>40	>100	
		IC=10mA,VCE=10V	>40	>100	
		IC=150mA,VCE=10V*	40-120	100-300	
		IC=500mA,VCE=10V*	>40	>50	

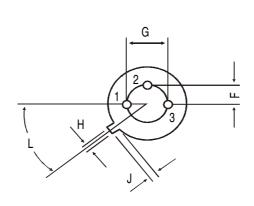
ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified) 2N2906A-07A

DESCRIPTION	PTION SYMBOL TEST CONDITION		MIN	MAX	UNIT
DYNAMIC CHARACTERISTICS					_
Transition Frequency	ft **	IC=50mA, VCE=20V,f=100MHz	200	-	MHz
Out-Put Capacitance	Cob	VCB=10V, IE=0,f=100kHz	-	8.0	pF
Input Capacitance	Cib	VBE=2V, IC=0, f=100kHz	-	30	pF
Switching Time					
Delay time	td	IC=150mA,IB1=15mA	-	10	ns
Rise time	tr	VCC=30V	-	40	ns
Turn-On Time	ton			45	ns
Storage time	ts	IC=150mA, IB1=IB2=15mA	_	80	ns
Fall time	tf	VCC=6V	-	30	ns
Turn-Off Time	toff		-	100	ns

^{*}Pulse Test :-Pulse Width=300us, Duty Cycle=2%

TO-18 Metal Can Package





All diminsions in mm.	DIM	MIN	MAX	
	Α	5.24	5.84	
	В	4.52	4.97	
	С	4.31	5.33	
	D	0.40	0.53	
	Е	_	0.76	
	F	_	1.27	
	G	_	2.97	
	Н	0.91	1.17	
	J	0.71	1.21	
	K	12.70	_	
₩	L	45 DEG		



PIN CONFIGURATION

- EMITTER
 BASE
 COLLECTOR

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-18	1K/polybag	350 gm/1K pcs	3" x 7.5" x 7.5"	5.0K	17" x 15" x 13.5"	80.0K	34 kgs



^{**}ft is defined as the frequency at which \hfe/ extrapolates to unity

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