

2N2906A, L JAN, JTX, JTXV, JANS
2N2906AUA JAN, JTX, JTXV, JANS
2N2906AUB JAN, JTX, JTXV, JANS
2N2907A, L JAN, JTX, JTXV, JANS
2N2907AUA JAN, JTX, JTXV, JANS
2N2907AUB JAN, JTX, JTXV, JANS



Processed per MIL-PRF-19500/291

PNP SILICON SMALL-SIGNAL TRANSISTORS

MAXIMUM RATINGS

Ratings	Symbol	All Types		Units
Collector-Emitter Voltage	V_{CEO}	60		Vdc
Collector-Base Voltage	V_{CBO}	60		Vdc
Emitter-Base Voltage	V_{EBO}	5.0		Vdc
Collector Current	I_C	600		mAdc
		A, L, AUB⁽¹⁾	AUA⁽²⁾	
Total Power Dissipation @ $T_A = 25^{\circ}C$	P_T	0.5	0.65	W
Operating & Storage Junction Temperature Range	T_J, T_{stg}	-65 to +200		$^{\circ}C$

1) Derate linearly 3.08 mW/ $^{\circ}C$ above $T_A = +37.5^{\circ}C$.

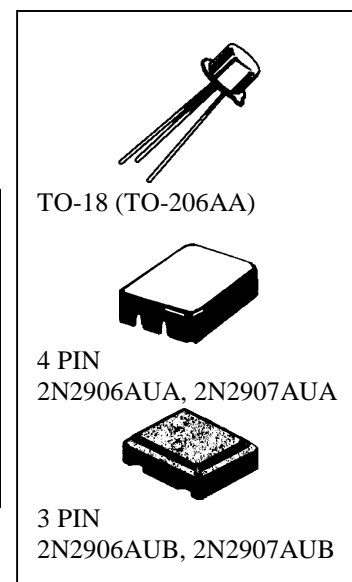
2) Derate linearly 4.76 mW/ $^{\circ}C$ above $T_A = +63.5^{\circ}C$.

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted)

Characteristics	Symbol	Min.	Max.	Unit
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OFF CHARACTERISTICS

Collector-Emitter Breakdown Voltage $I_C = 10$ mAdc	$V_{(BR)CEO}$	60		Vdc
Collector-Base Cutoff Current $V_{CE} = 60$ Vdc	I_{CBO1}		10	μ Adc
Collector-Base Cutoff Current $V_{CE} = 50$ Vdc	I_{CBO}		10	η Adc
Collector-Base Cutoff Current $V_{CE} = 50$ Vdc	I_{CES}		50	η Adc
Emitter-Base Cutoff Current $V_{EB} = 5.0$ Vdc	I_{EBO1}		10	μ Adc
Emitter-Base Cutoff Current $V_{EB} = 4.0$ Vdc	I_{EBO}		50	η Adc



S2N2906A, L, AUA, AUB; S2N2907A, L, AUA, AUB JAN SERIES

ELECTRICAL CHARACTERISTICS (con't)

Characteristics	Symbol	Min.	Max.	Unit
ON CHARACTERISTICS				
Forward-Current Transfer Ratio $I_C = 0.1 \text{ mAdc}$, $V_{CE} = 10 \text{ Vdc}$ S2N2906A., L, UA, UB S2N2907A, L, UA,UB	h_{FE}	40		
$I_C = 1.0 \text{ mAdc}$, $V_{CE} = 10 \text{ Vdc}$ S2N2906A, L, UA, UB S2N2907A, L, UA, UB		75	175	
$I_C = 10 \text{ mAdc}$, $V_{CE} = 10 \text{ Vdc}$ S2N2906A., L, UA, UB S2N2907A, L, UA, UB		40	450	
$I_C = 150 \text{ mAdc}$, $V_{CE} = 10 \text{ Vdc}$ S2N2906A, L, UA, UB S2N2907A, L, UA, UB		100		
$I_C = 500 \text{ mAdc}$, $V_{CE} = 10 \text{ Vdc}$ S2N2906A. L, UA, UB S2N2907A, L, UA, UB		40	120	
		100	300	
Collector-Emitter Saturation Voltage $I_C = 150 \text{ mAdc}$, $I_B = 15 \text{ mAdc}$ $I_C = 500 \text{ mAdc}$, $I_B = 50 \text{ mAdc}$	$V_{CE(sat)}$		0.4 1.6	Vdc
Base-Emitter Saturation Voltage $I_C = 150 \text{ mAdc}$, $I_B = 15 \text{ mAdc}$ $I_C = 500 \text{ mAdc}$, $I_B = 50 \text{ mAdc}$	$V_{BE(sat)}$	0.6	1.3 2.6	Vdc
DYNAMIC CHARACTERISTICS				
Forward Current Transfer Ratio $V_{CE} = 10 \text{ Vdc}$, $I_C = 1.0 \text{ mAdc}$, $f = 1.0 \text{ kHz}$ S2N2906A, L, UA,UB S2N2907A, L, UA,UB	h_{fe}	40 100		
Magnitude of Small-Signal Forward Current Transfer Ratio $V_{CE} = 20 \text{ Vdc}$, $I_C = 20 \text{ mAdc}$, $f = 100 \text{ MHz}$	$ h_{fe} $	2.0		
Output Capacitance $V_{CB} = 10 \text{ Vdc}$, $I_E = 0$, $100 \text{ kHz} \leq f \leq 1.0 \text{ MHz}$	C_{obo}		8.0	pF
Input Capacitance $V_{EB} = 2.0 \text{ Vdc}$, $I_C = 0$, $100 \text{ kHz} \leq f \leq 1.0 \text{ MHz}$	C_{ibo}		30	pF