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2N2905A

Features

- General-purpose Transistor for Switching and Amplifier Applications
- Housed in a TO-39 Case
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

Symbol	Rating	Rating	Unit	
V_{CEO}	Collector-Emitter Voltage	60	V	
V_{CBO}	Collector-Base Voltage	60	V	
V_{EBO}	Emitter-Base Voltage	5.0	V	
I _C	Collector Current, Continuous	600	mA	
TJ	Operating Junction Temperature	-55 to +150	℃	
T_{STG}	Storage Temperature	-55 to +150	°C	

Electrical Characteristics @ 25°C Unless Otherwise Specified Symbol Parameter Min Typ Max Units

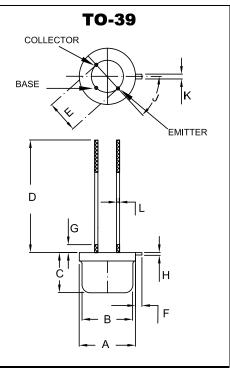
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OFF CHARACTERISTICS							
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =10mAdc, I _B =0)	60	70		Vdc		
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =10µAdc, I _E =0)	60	100		Vdc		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =10µAdc, I _C =0)	5.0	9.0		Vdc		
I _{CES}	Collector-Emitter Cutoff Current (V _{CE} =30Vdc)		1.0	50	nAdc		
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =50Vdc)		0.25	10	nAdc		
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =3.5Vdc)`		0.1	50	nAdc		

ON CHARACTERISTICS

h _{FE}	DC Current Gain*				
	(I _C =100μAdc, V _{CE} =10Vdc)	75	225		
	$(I_C=1.0 \text{mAdc}, V_{CE}=10 \text{Vdc})$	100	250	450	
	$(I_C=10mAdc, V_{CE}=10Vdc)$	100			
	(I _C =150mAdc, V _{CE} 10Vdc)	100	180	300	
	(I _C =500mAdc, V _{CE} =10Vdc)	50	80		
$V_{CE(sat)}$	Collector-Emitter Saturation				
(,	Voltage				
	(I _C =150mAdc, I _B =15mAdc)		0.18	0.4	Vdc
	(I _C =500mAdc, I _B =50mAdc)		0.5	1.6	
$V_{BE(sat)}$	Base-Emitter Saturation Voltage				
` ′	(I _C =150mAdc, I _B =15mAdc)		0.87	1.3	Vdc
	(I _C =500mAdc, I _B =50mAdc)		1.0	2.6	

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

PNP General Purpose Amplifier



DIMENSIONS					
	INCHES		M		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.335	.370	8.509	9.40	Ф
В	.305	.335	7.747	8.509	Ф
С	.240	.260	6.096	6.604	
D	.50	.75	12.7	19.05	
Е	.200		5.08		ФТҮР
F	.029	.045	7.366	11.43	
G		.050		1.27	
Η	.009	.031	0.229	7.874	
7	44°	46°	44°	46°	
K	.028	.034	0.711	0.864	
L	.016	.021	0.406	0.533	

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Symbl	Parameter	Min	Тур	Max	Units
SMALL-SI	GNAL CHARACTERISTICS				
AC h _{FE}	Short Circuit Current Transfer Ratio (I _C =1.0mAdc, V _{CE} =10Vdc,f=1.0kHz)	100	250		
Сово	Open Circuit Output Capacitance (V _{CB} =10Vdc, I _E =0, 100kH _z <f<1.0mh<sub>z)</f<1.0mh<sub>		6.0	8.0	pF
C _{IBO}	Input Capacitance, Output Open Circuited (V _{EB} =2.0Vdc, I _C =0, 100kH _z <f<1.0mh<sub>z)</f<1.0mh<sub>		8.0	30.0	pF
SWITCHI	NG CHARACTERISTICS				
t _{ON}	Saturated Tum On Switching Time to 90% 16V,50 ohm input pulse		25	45	ns
t _{OFF}	Saturated Tum Off Switching Time to10% 16V,50 ohm input pulse		200	300	ns



Ordering Information:

Device	Packing
Part Number-BP	Bulk; 50pcs/Box

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