

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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

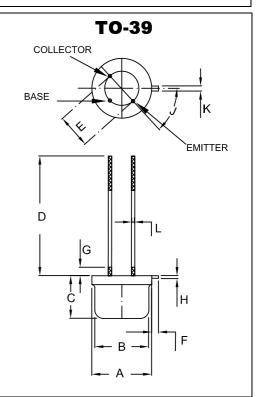
Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	60	V
V _{CBO}	Collector-Base Voltage	60	V
V _{EBO}	Emitter-Base Voltage	5.0	V
Ic	Collector Current, Continuous	600	mA
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbl	Parameter	Min	Тур	Max	Units
OFF CHAR	ACTERISTICS	•			
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 CHAR <i>i</i>	ACTERISTICS				
h _{FE}	DC Current Gain* (I _c =100µAdc, V _{cE} =10Vdc) (I _c =1.0mAdc, V _{cE} =10Vdc) (I _c =10mAdc, V _{cE} =10Vdc) (I _c =150mAdc, V _{cE} 10Vdc) (I _c =500mAdc, V _{cE} =10Vdc)	75 100 100 100 50	225 250 180 80	 450 300 	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =150mAdc, I _B =15mAdc) (I _c =500mAdc, I _B =50mAdc)		0.18 0.5	0.4 1.6	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I_c =150mAdc, I_B =15mAdc) (I_c =500mAdc, I_B =50mAdc)		0.87 1.0	1.3 2.6	Vdc

2N2905A

PNP General Purpose Amplifier



DIMENSIONS					
	INC	HES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.335	.370	8.509	9.40	Φ
В	.305	.335	7.747	8.509	Φ
С	.240	.260	6.096	6.604	
D	.50	.75	12.7	19.05	
E	.200		5.08		ΦΤΥΡ
F	.029	.045	7.366	11.43	
G		.050		1.27	
Н	.009	.031	0.229	7.874	
J	44°	46°	44°	46°	
K	.028	.034	0.711	0.864	
L	.016	.021	0.406	0.533	

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

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2N2905A



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Symbl	Parameter	Min	Тур	Max	Units		
SMALL-SI	SMALL-SIGNAL CHARACTERISTICS						
AC h _{FE}	Short Circuit Current Transfer Ratio (I _c =1.0mAdc, V _{cE} =10Vdc,f=1.0kHz)	100	250				
C _{OBO}	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		

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Ordering Information :

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

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