

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MPSW51

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

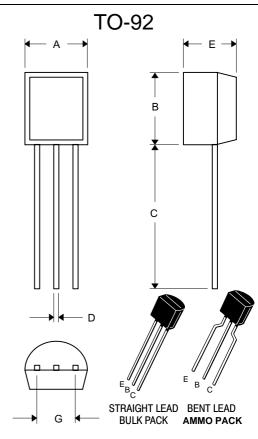
Operating temperature : -55[°]C to +150[°]C

Storage temperature : -55°C to +150°C

Electrical Characteristics @ 25° C Unless Otherwise Specified

Symbol	Parameter	Value	Unit	
V _{CEO}	Collector-Emitter Voltage	-30 V		
V _{CBO}	Collector-Base Voltage	-40 V		
V _{EBO}	Emitter-Base Voltage	-5 V		
Ic	Collector Current -Continuous	-1.0	Α	
Pc	Collector Power Dissipation	625	mW	
RθJA	Thermal Resistance, Junction to Ambient	200 °C/W		
T _j	Junction Temperature	150	℃	
T _{stg}	Storage Temperature	-55-150	°C	

PNP Plastic-Encapsulate Transistors



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500		12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.



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ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C = -0.1 \text{mA}, I_E = 0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA,I_B=0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =-0.1mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =-3V,I _C =0			-0.1	μΑ
	h _{FE(1)}	V _{CE} =-1V, I _C =-0.01A	55			
DC current gain	h _{FE(2)}	V _{CE} =-1V, I _C =-0.1A	60			
	h _{FE(3)}	V _{CE} =-1V, I _C =-1A	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =-1A,I _B =-0.1A			-0.7	V
Base-emitter voltage	V_{BE}	I _C =-1A, V _{CE} =-1V			-1.2	V
Transition frequency	f _T	V _{CE} =-10V,I _C =-50mA,f=20MHz	50			MHz
Collector output capacitance	C_{ob}	V _{CB} =-10V,I _E =0, f=1MHz			30	pF



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Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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