

Micro Commercial Components



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

MPSA93

Epitaxial Planar PNP

Transistor

Features

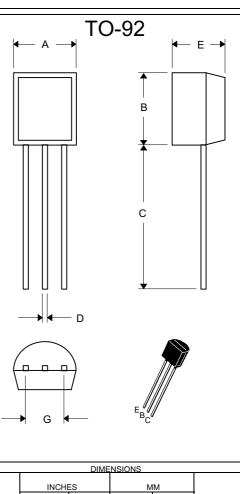
- Through Hole Package
- 150°C Junction Temperature
- Complementary to MPSA42/43
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking:A93

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	-200	V
V _{CBO}	Collector-Base Voltage	-200	V
V _{EBO}	Emitter-Base Voltage	-5.0	V
I _C	Collector Current	-500	mA
Ι _Ε	Emitter Current	500	mA
Pc	Collector Power Dissipation	625	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units		
OFF CHARACTERISTICS						
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =1.0mAdc, I _B =0)	-200		Vdc		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100µAdc, I _C =0)	-200		Vdc		
I _{CBO}	Collector Cutoff Current (V _{CB} =-150Vdc, I _E =0)		-0.25	µAdc		
I _{EBO}	Emitter Cutoff Current (V _{EB} =-3.0Vdc, I _C =0)		-0.1	µAdc		
OFF CHAR/	CTERISTICS					
*h _{FE}	DC Current Gain (V _{CE} =-10Vdc, I _c =-1.0mAdc) (V _{CE} =-10Vdc, I _c =-10mAdc) (V _{CE} =-10Vdc, I _c =-30mAdc)	25 40 25				
*V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =-20mAdc, I _B =-2.0mAdc)		-0.5	Vdc		
*V _{BE(on)}	Base-Emitter On Voltage (I _c =-20mAdc, I _B =-2.0mAdc)		-0.9	Vdc		
Small Sig	nal Characteristics					
f⊤	Current Gain Bandwidth Product (I _c =-10mAdc, V _{ce} =-20Vdc, f=100MHz)	50		MHz		
C _{ob}	Collector Output Capacitance (I _E =0mAdc, V _{CB} =-20Vdc, f=1MHz)		8.0	pF		
* Pulse T	est: Pulse Width≦300µs, Duty Cycle	e≦2.0%				



	INCH	ES	N	IM	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

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Revision: A

2011/01/01



Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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