

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MPSA93

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
Ic	Collector Current	-500	mA
Ι _Ε	Emitter Current	500	mA
Pc	Collector Power Dissipation	625	mW
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

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	

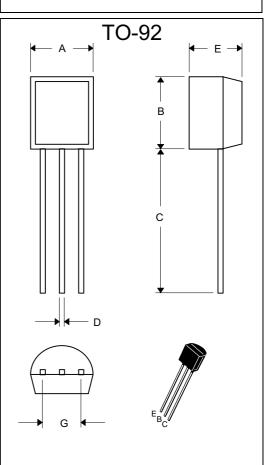
OFF CHARACTERISTICS

*h _{FE}	DC Current Gain			
	$(V_{CE}=-10Vdc, I_{C}=-1.0mAdc)$			
	$(V_{CE}=-10Vdc, I_{C}=-10mAdc)$	40		
	$(V_{CE}=-10Vdc, I_{C}=-30mAdc)$	25		
*V _{CE(sat)}	Collector-Emitter Saturation Voltage		-0.5	Vdc
, ,	$(I_C=-20\text{mAdc}, I_B=-2.0\text{mAdc})$			
*V _{BE(on)}	Base-Emitter On Voltage		-0.9	Vdc
` '	(I _C =-20mAdc, I _R =-2.0mAdc)			

Smail Signal Characteristics				
f_T	Current Gain Bandwidth Product	50		MHz
	$(I_C=-10\text{mAdc}, V_{CE}=-20\text{Vdc}, f=100\text{MHz})$			
C _{ob}	Collector Output Capacitance		8.0	pF
	(I _E =0mAdc, V _{CB} =-20Vdc, f=1MHz)			

^{*} Pulse Test: Pulse Width $\leq\!300\mu\text{s},\,\text{Duty Cycle}\!\leq\!2.0\%$

Epitaxial Planar PNP Transistor



DIMENSIONS					
	INCHES		INCHES MM		
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	
Е	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	



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Ordering Information:

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

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