



Micro Commercial Components

Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

MPSA29

Features

- Through Hole Package
- 150°C Junction Temperature
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

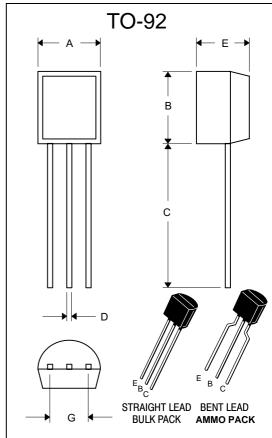
Case: TO-92, Molded Plastic

Marking: MPSA29

Maximum Ratings @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	100	٧
Collector-Emitter Voltage	V _{CES}	90	V
Emitter-Base Voltage	V_{EBO}	12	V
Collector Current(DC)	I _C	500	mA
Collector Power Dissipation	P _C	625	mW
Thermal Resistance, Junction to Ambient Air	$R_{ heta JA}$	200	°C/W
Operating & Storage Temperature	T_j , T_{STG}	-55~150	°C

NPN Darlington Transistor



DIMENSIONS					
	INCHI	INCHES		1M	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
C	.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.

www.mccsemi.com

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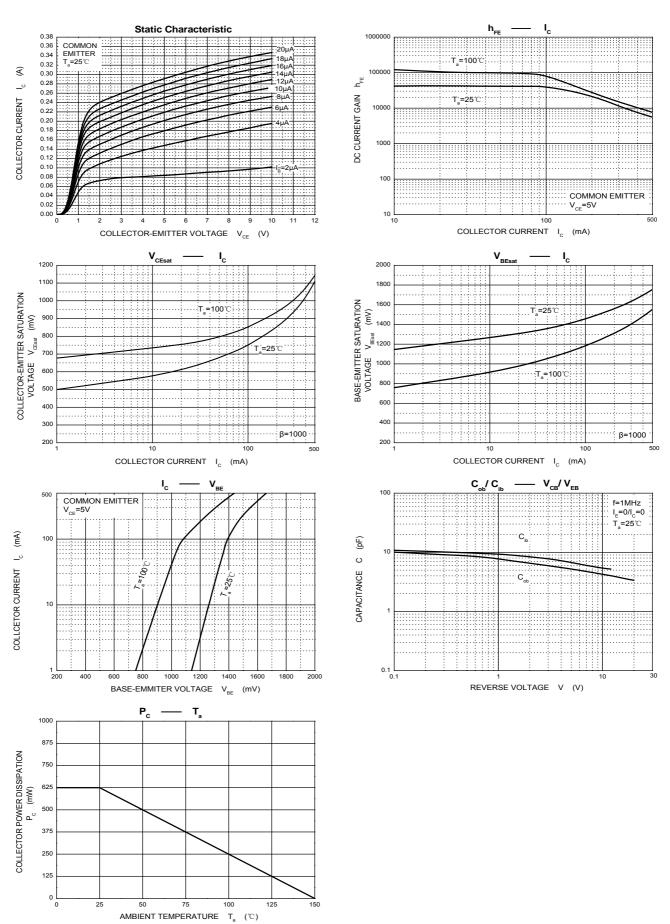
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	100			V
Collector-emitter breakdown voltage	V _{(BR)CES}	I _C =0.1mA,V _{BE} =0	90			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	12			V
Collector cut-off current	I _{CBO}	V _{CB} =80V,I _E =0			0.1	μA
Collector cut-off current	I _{CES}	V _{CE} =80V,I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =10V,I _C =0			0.1	μA
DC current gain	h _{FE(1)} *	V _{CE} =5V, I _C =10mA	10000			
	h _{FE(2)} *	V _{CE} =5V, I _C =100mA	10000			
Callegates amittee actionation valtage	V _{CE(sat)(1)} *	I _C =10mA,I _B =0.01mA			1.2	V
Collector-emitter saturation voltage	V _{CE(sat)(2)} *	I _C =100mA,I _B =0.1mA			1.5	V
Base-emitter voltage	V _{BE} *	V _{CE} =5V,I _C =100mA			2.0	V
Transition frequency	f _T	V _{CE} =5V,I _C =10mA,f=100MHz	125			MHz
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz			8	pF

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.

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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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