



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2SA933AS-Q 2SA933AS-R 2SA933AS-S

Features

- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Marking: Type number
- Power dissipation: $P_{CM} = 0.2W(T_{amb} = 25^{\circ}C)$
- Collector current: I_{CM} = -0.15A
- Collector-base voltage: V_{(BR)CBO} =-60V
- Operating and storage junction temperature range

T_J, T_{stg}: -55 °C to + 150 °C

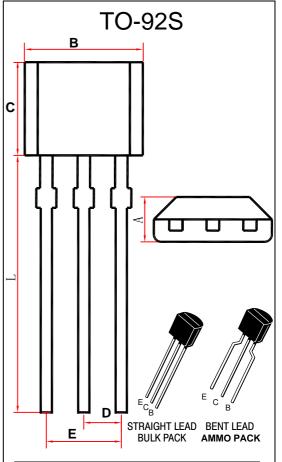
Halogen free available upon request by adding suffix "-HF" Electrical Characteristics @ 25° Unless Otherwise Specified

Symbol	Parameter		Тур	Max	Unit
V _{CEO}	Collector-Emitter Voltage (I_C =-50 μ A, I_E =0)		1		V
V_{CBO}	Collector-Base Voltage (I _C =-1 μ A, I _B =0)				V
V_{EBO}	Emitter-Base Voltage (I _E =-50 μ A, I _C =0)	-6.0			V
I _{CBO}	Collector cut-off Current (V _{CB} =-20V, I _E =0)			-0.1	μА
I _{EBO}	Emitter cut-off Current (V _{EB} =-5V, I _C =0)			-0.1	μА
h _{FE}	DC current gain (V _{CE} =-2V, I _C =-0.1A)	120		560	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I _C =-2A, I _B =-0.1A)			-0.5	V
f⊤	Transition Frequency (V _{CE} =2.0Vdc, I _C =0.5Adc)	120			MHz

CLASSIFICATION OF her

Rank	Q	R	S
Range	120-270	180-390	270-560

PNP Plastic-Encapsulate Transistors



DIMENSIONS					
	INCH	HES	ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.056	.064	1.42	1.62	
В	.154	.161	3.90	4.10	
С	.120	.128	3.05	3.25	
D	.050		1.27		Straight Lead
D	.086	.110	2.20	2.80	Bent Lead
Е	.096	.104	2.44	2.64	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
Ĺ	.594	.610	15.10	15.50	

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

www.mccsemi.com



Ordering Information:

Device	Packing		
Part Number-AP	Ammo Packing: 30Kpcs/Carton		
Part Number-BP	Bulk: 100 Kpcs/Carton		

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

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