

**Micro Commercial Components** 



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# 2SC1741S-Q

## **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
- High Ic
- Low Vce(sat). Optimal for low Voltage Operation
- Complements the 2SA854S
- Halogen free available upon request by adding suffix "-HF"

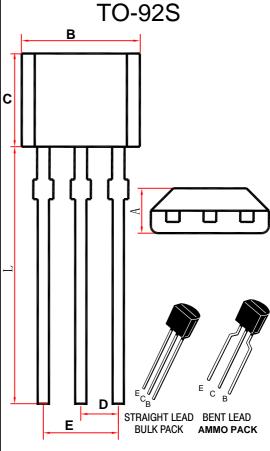
## MAXIMUM RATINGS (T<sub>a</sub>=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	32	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
Ic	Collector Current	0.5	Α
Pc	Collector Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	625	°C/W
Tj	Junction Temperature	-55~+150	°C
T <sub>stg</sub>	Storage Temperature	-55~+150	°C

## Electrical Characteristics $@25^{\circ}$ Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Unit
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1.0mA, I <sub>B</sub> =0)	32			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>C</sub> =1.0mA, I <sub>E</sub> =0)	40			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I <sub>E</sub> =0.1mA, I <sub>C</sub> =0)	5.0			V
I <sub>CBO</sub>	Collector cut-off Current $(V_{CB}=20V, I_{E}=0)$			1.0	μА
I <sub>EBO</sub>	Emitter cut-off Current (V <sub>EB</sub> =4V, I <sub>C</sub> =0)			1.0	μА
h <sub>FE</sub>	DC current gain (V <sub>CE</sub> = 3V, I <sub>C</sub> = 100mA)	120		270	
$V_{\text{CE}(\text{sat})}$	Collector-Emitter Saturation Voltage (I <sub>C</sub> = 500mA, I <sub>B</sub> = 50mA)			0.4	V
$f_{T}$	Transition Frequency (V <sub>CE</sub> = 5.0Vdc, I <sub>C</sub> =20mAdc,f=100MHz)		250		MHz

# NPN Plastic-Encapsulate Transistors



	DIMENSIONS					
	INCHES		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	
	.086	.110	2.20	2.80	Bent Lead	
_	.096	.104	2.44	2.64	Straight Lead	
Е	.173	.220	4.40	5.60	Bent Lead	
L	.594	.610	15.10	15.50		

<sup>\*</sup> For ammo packing detailed specification, click here to visit our website of product packaging for details.

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## Ordering Information:

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

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

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