

**Micro Commercial Components** 

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

### **Features**

- High breakdown voltage: BV<sub>CEO</sub>=120Vdc
- Complements the 2SA1038S
- Marking : TP
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

### **Absolute Maximum Ratings**

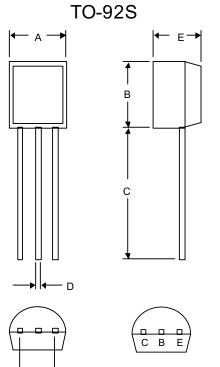
Symbol	Rating	Rating	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	120	V
V <sub>CBO</sub>	Collector-Base Voltage	120	V
V <sub>EBO</sub>	Emitter-Base Voltage	5.0	V
lc	Collector Current	50	mA
Pc	Collector Power Dissipation	0.3	W
TJ	Operating Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units		
OFF CHARACTERISTICS							
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage (t <sub>c</sub> =50uAdc)	120			Vdc		
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage (t=1.0mAdc)	120			Vdc		
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage (ᡶ=50ì Adc, է=0)	5.0			Vdc		
Ісво	Collector Cutoff Current (V <sub>CB</sub> =100Vdc)			0.5	uAdc		
I <sub>EBO</sub>	Base Cutoff Current (V <sub>EB</sub> =4.0Vdc)			0.5	uAdc		
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage ([ <sub>b</sub> /l <sub>B</sub> =10mAdc/1.0mAdc)			0.5	Vdc		
h <sub>FE</sub>	DC Current Transfer Ratio (V <sub>CE</sub> =6.0Vdc, ┟=2.0mAdc)	180		560			
f⊤	Transition Frequency (V <sub>CE</sub> =12Vdc, <u></u> ⊧=2.0mAdc, f=100MHz)		140		MHz		
C <sub>ob</sub>	Output Capacitance (V <sub>CB</sub> =12Vdc, <u></u> =0, f=1.0MHz)		2.5		pF		

## 2SC2389S

50mA High-voltage Amplifier Transistor 120 Volts





DIMENSIONS					
	INCH	IES	M	M	
DIM	MIN	MAX	MIN	MAX	NOTE
А	.16		4.00		
В	.12		3.00		
С	.59		15.00		
D	.0	)2	0.	45	
E	.08		2.00		
G	.20		5.00		

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### **Ordering Information**

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Bag

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