



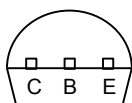
Micro Commercial Components
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2SC2389S

Features

- High breakdown voltage: $BV_{CEO}=120Vdc$
- Complements the 2SA1038S
- Marking Code: TP

Pin Configuration
Bottom View



50mA High-voltage Amplifier Transistor 120 Volts

Absolute Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	120	V
V_{CBO}	Collector-Base Voltage	120	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	50	mA
P_C	Collector Power Dissipation	0.3	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

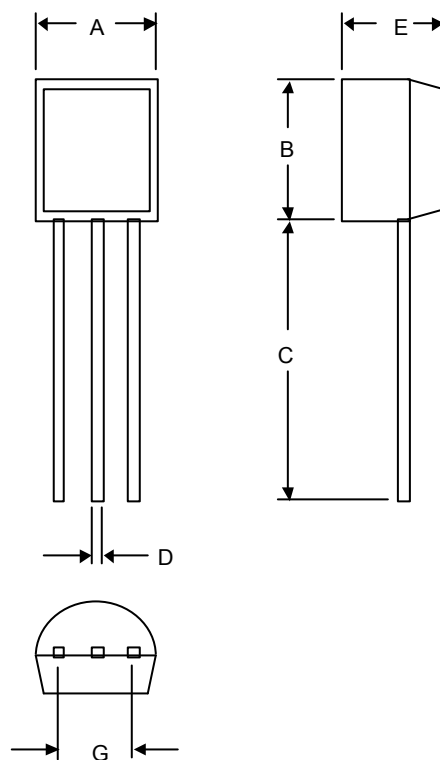
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

BV_{CEO}	Collector-Emitter Breakdown Voltage ($I_C=50\mu A$)	120	---	---	Vdc
BV_{CBO}	Collector-Base Breakdown Voltage ($I_C=1.0mA$)	120	---	---	Vdc
BV_{EBO}	Emitter-Base Breakdown Voltage ($I_E=50\mu A$, $I_C=0$)	5.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=100Vdc$)	---	---	0.5	μA
I_{EBO}	Base Cutoff Current ($V_{EB}=4.0Vdc$)	---	---	0.5	μA
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C/I_B=10mA/1.0mA$)	---	---	0.5	Vdc
h_{FE}	DC Current Transfer Ratio ($V_{CE}=6.0Vdc$, $I_C=2.0mA$)	180	---	560	---
f_T	Transition Frequency ($V_{CE}=12Vdc$, $I_C=2.0mA$, $f=100MHz$)	---	140	---	MHz
C_{ob}	Output Capacitance ($V_{CB}=12Vdc$, $I_C=0$, $f=1.0MHz$)	---	2.5	---	pF

TO-92S



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.16		4.00		
B	.12		3.00		
C	.59	---	15.00	---	
D	.02		0.45		
E	.08		2.00		
G	.20		5.00		