

**Micro Commercial Components** 

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## 2N3055

# 10 Amp NPN Silicon Power Transistors 80 W

# TO-3

> PIN 1. BASE PIN 2. EMITTER CASE. COLLECTOR

		DIN	MENSIONS		
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	1.550	REF	39.37	REF	
В		1.050		26.67	
С	.250	.335	6.35	8.51	
D	.038	.043	0.97	1.09	
Е	0.55	0.70	1.40	1.77	
G	.430	BSC	10.92	BSC	
Н	.215	BSC	5.46	BSC	
K	.440	.480	11.18	12.19	
L	.665	BSC	16.89	BSC	
N		.830		21.08	
Q	.151	.165	3.84	4.19	Ø
U	1.187	BSC	30.15	BSC	
V	.131	.188	3.33	4.77	

# **Features**• Designed for 9

- Designed for general-purpose switching and amplifier applications
- With TO-3 package

# **Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	60	V
$V_{CBO}$	Collector-Base Voltage	100	V
$V_{EBO}$	Emitter-Base Voltage	7.0	V
lc	Collector Current	10	Α
$P_{C}$	Collector power dissipation	80	W
$T_J$	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	Max	Units			
OFF CHARACTERISTICS							
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (L=100mAdc, I <sub>B</sub> =0)	60		Vdc			
Ісво	Collector-Base Cutoff Current (V <sub>CB</sub> =100Vdc, I <sub>E</sub> =0)		1.0	mAdc			
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =7.0Vdc, I <sub>C</sub> =0)		5.0	mAdc			
I <sub>CEO</sub>	Collector-Emitter Cutoff Current (V <sub>CE</sub> =30Vdc, $_{B}$ =0)		0.7	mAdc			
ON CHARAC	CTERISTICS						

#### Forward Current Transfer ratio 20 100 $h_{FE(1)}$ (L=4.0Adc, V<sub>CE</sub>=4.0Vdc) Forward Current Transfer ratio 5.0 h<sub>FE(2)</sub> (L=10Adc, V<sub>CE</sub>=4.0Vdc) $\overline{V}_{CE(sat)}$ Collector-Emitter Saturation Voltage 1.0 Vdc ( $I_c$ =4.0Adc, $I_B$ =0.4Adc) $V_{\text{BE(on)}}$ Base-Emitter Saturation Voltage 1.5 Vdc ( $I_C$ =4.0Adc, $V_{CE}$ =4.0Vdc) Transition Frequency 2.5 $MH_Z$ $(V_{CE}=4.0Vdc, I_{C}=1.0Adc, f=1.0MH_{z})$



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