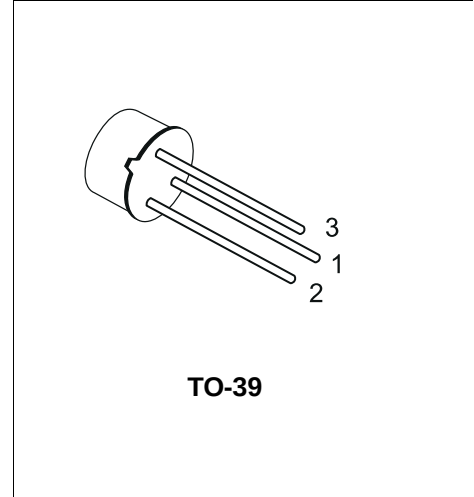


DESCRIPTION

- With TO-39 package
- High breakdown voltage V_{CEO} :250V
- High current 1A
- Low saturation voltage,excellent h_{FE} linearity

APPLICATIONS

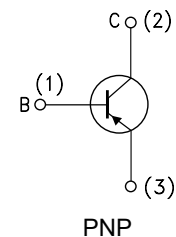
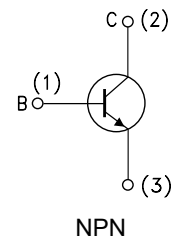
- For low-frequency power amplifier applications



ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	250	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	1	A
I_B	Base Current-Continuous	0.5	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	10	W
T_J	Junction Temperature	200	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65~200	$^{\circ}\text{C}$

INTERNAL SCHEMATIC DIAGRAM



ELECTRICAL CHARACTERISTICS**T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = 50\text{mA}$; $I_B = 0$	250			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 50\text{mA}$; $I_B = 4\text{mA}$			0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = 50\text{mA}$; $I_B = 4\text{mA}$			1.3	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = 250\text{V}$; $I_E = 0$			20	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = 6\text{V}$; $I_C = 0$			20	μA
h_{FE-1}	DC Current Gain	$I_C = 20\text{mA}$; $V_{CE} = 10\text{V}$	60		200	
f_T	Current-Gain—Bandwidth Product	$I_C = 5\text{mA}$; $V_{CE} = 10\text{V}$	15			MHz

TO-39 MECHANICAL DATA

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	12.7			0.500		
B			0.49			0.019
D			6.6			0.260
E			8.5			0.334
F			9.4			0.370
G	5.08			0.200		
H			1.2			0.047
I			0.9			0.035
L	45° (typ.)					

