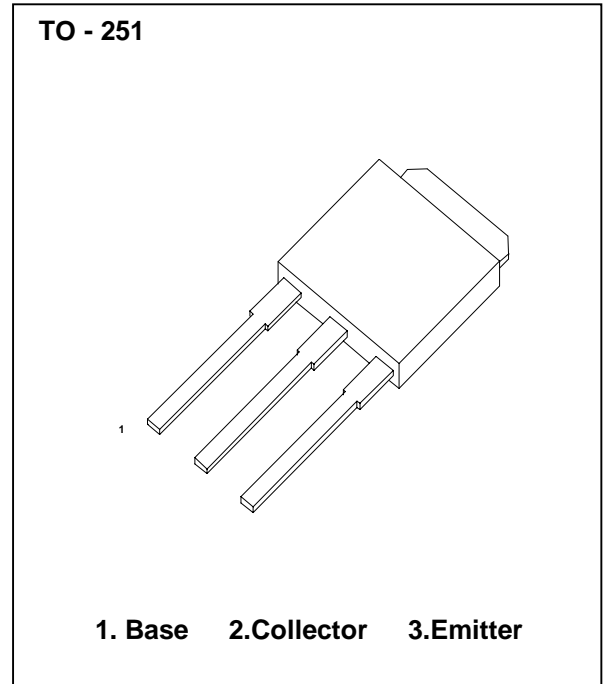


### AUDIO FREQUENCY POWER AMPLIFIER LOW SPEED SWITCHING

- Collector-Emitter Voltage:  $V_{CE0} = 30V$
- Collector Dissipation:  $P_C(\text{max}) = 1.25W$

### Absolute Maximum Ratings (TA=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	40	V
Collector-Emitter Voltage	$V_{CEO}$	30	V
Emitter-Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	3	A
Collector Dissipation	$P_C$	1.25	W
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{STG}$	-65~150	°C



### Electrical Characteristics (TA=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C = 100\mu A, I_E = 0$	40			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C = 10mA, I_B = 0$	30			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E = 100\mu A, I_C = 0$	6			V
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 40V, I_E = 0$			1	$\mu A$
Collector Cutoff Current	$I_{CEO}$	$V_{CB} = 30V, I_E = 0$			10	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 6V, I_C = 0$			1	$\mu A$
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 2V, I_C = 1A$	60		400	
	$h_{FE(1)}$	$V_{CE} = 2V, I_C = 100mA$	32			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2A, I_B = 50mA$			0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$V_{CE} = 1V, I_C = 2A$			1.5	V
Transition frequency	$f_T$	$V_{CE} = 5V, I_C = 0.1A, f = 10MHz$	50			MHz

### $h_{FE}$ CLASSIFICATION

Classification	R	O	Y	GR
$h_{FE(1)}$	60 - 120	100 - 200	160 - 320	200 - 400