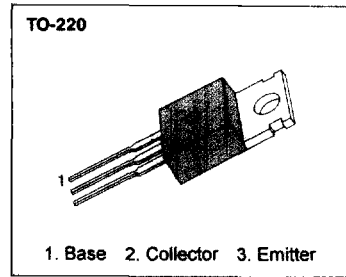


**POWER REGULATOR  
LOW FREQUENCY HIGH POWER AMPLIFIER**

- Collector-Base Voltage  $V_{CBO}=80V$
- Collector Dissipation  $PC=25W(T_C=25^\circ C)$

**ABSOLUTE MAXIMUM RATINGS**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	80	V
Collector-Emitter Voltage	$V_{CEO}$	55	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	3	A
Collector Dissipation ( $T_C=25^\circ C$ )	$P_C$	25	W
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature	$T_{STG}$	-55 ~ 150	$^\circ C$



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**ELECTRICAL CHARACTERISTICS ( $T_C = 25^\circ C$ )**

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=500\mu A, I_E=0$	80			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=10mA, I_B=0$	55			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=500\mu A, I_C=0$	5			V
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=50V, I_E=0$			50	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=0.5A$	40		240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1A, I_B=0.1A$			1	V

**$h_{FE}$  CLASSIFICATION**

Classification	R	O	Y
$h_{FE}$	40 - 80	70 - 140	120 - 240

