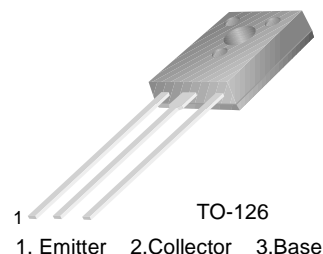


**■■ APPLICATION:** Color TV Chroma Output and Video Output

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

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	$V_{CBO}$	300	V
Collector-emitter voltage	$V_{CEO}$	300	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	200	mA
Power Dissipation	$P_C$	1.25~10	W
Junction Temperature	$T_J$	150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	- 55~150	$^{\circ}\text{C}$


**■■ ELECTRICAL CHARACTERISTICS** ( $T_a=25^{\circ}\text{C}$ )

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Common Emitter DC Current Gain	$h_{FE}$	40	80	250		$V_{CE}=10\text{V}$ , $I_C=10\text{mA}$
Collector Cut-off Current	$I_{CBO}$			0.1	$\mu\text{A}$	$V_{CB}=200\text{V}$ , $I_E=0$
Emitter Cut-off Current	$I_{EBO}$			0.1	$\mu\text{A}$	$V_{EB}=5\text{V}$ , $I_C=0$
Collector-Base Breakdown Voltage	$BV_{CBO}$	300			V	$I_C=0.1\text{mA}$ , $I_E=0$
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	300			V	$I_C=10\text{mA}$ , $I_B=0$
Emitter-Base Breakdown Voltage	$BV_{EBO}$	5			V	$I_E=0.1\text{mA}$ , $I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			1.5	V	$I_C=50\text{mA}$ , $I_B=5\text{mA}$
Gain bandwidth product	$f_T$	50	80		MHz	$I_C=10\text{mA}$ , $V_{CE}=30\text{V}$
Feed Back Capacitance	$C_{re}$			3	pF	$V_{CB}=30\text{V}$ , $I_E=0$ , $f=1\text{MHz}$

**■■  $h_{FE}$  Classification And Marking**

Classification	N	M	L	K
$h_{FE}$	40~80	60~120	100~200	160~250