



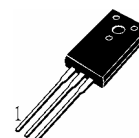
APPLICATIONS

Color TV Chroma Output Applications

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

T_{stg}	Storage Temperature	$-55\sim 150^{\circ}\text{C}$
T_j	Junction Temperature	150°C
P_C	Collector Dissipation ($T_c=25^{\circ}\text{C}$)	10W
P_C	Collector Dissipation	1.2W
V_{CBO}	Collector-Base Voltage	300V
V_{CEO}	Collector-Emitter Voltage	300V
V_{EBO}	Emitter-Base Voltage	6.5V
I_C	Collector Current	200mA
I_{CP}	Collector Current (Pulse)	700mA

TO-126



1—Emitter, E
2—Collector, C
3—Base, B

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

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I_{CBO}	Collector Cut-off Current			1.0	μA	$V_{\text{CB}}=200\text{V}, I_{\text{E}}=0$
I_{EBO}	Emitter Cut-off Current			1.0	μA	$V_{\text{EB}}=6\text{V}, I_{\text{C}}=0$
h_{FE}	DC Current Gain	40		200		$V_{\text{CE}}=10\text{V}, I_{\text{C}}=10\text{mA}$
$V_{\text{CE(sat)}}$	Collector- Emitter Saturation Voltage			0.6	V	$I_{\text{C}}=20\text{mA}, I_{\text{B}}=2\text{mA}$
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage			1.0	V	$I_{\text{C}}=20\text{mA}, I_{\text{B}}=2\text{mA}$
f_t	Current Gain-Bandwidth Product	50			MHz	$V_{\text{CE}}=30\text{V}, I_{\text{C}}=10\text{mA},$
C_{ob}	Output Capacitance			5	pF	$V_{\text{CB}}=50\text{V}, f=1\text{MHz}$

h_{FE} Classification

C	D	E
40—80	60—120	100—200