

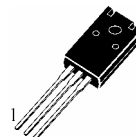
APPLICATIONS

High-definition CRT display video output, wide-band amplifier.

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

T_{stg}	Storage Temperature	-55~150 $^{\circ}\text{C}$
T_j	Junction Temperature	150 $^{\circ}\text{C}$
P_C	Collector Dissipation ($T_c=25^{\circ}\text{C}$)	8W
P_C	Collector Dissipation ($T_A=25^{\circ}\text{C}$)	1.3W
V_{CBO}	Collector-Base Voltage	120V
V_{CEO}	Collector-Emitter Voltage	120V
V_{EBO}	Emitter-Base Voltage	3V
I_C	Collector Current	200mA

TO-126ML



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
BV_{CBO}	Collector-Base Breakdown Voltage	120			V	$I_C=10\mu\text{A}$, $I_E=0$
BV_{CEO}	Collector-Emitter Breakdown Voltage	120			V	$I_C=1\text{mA}$, $I_B=0$
BV_{EBO}	Emitter-Base Breakdown Voltage	3			V	$I_E=100\mu\text{A}$, $I_C=0$
I_{CBO}	Collector Cut-off Current			0.1	μA	$V_{\text{CB}}=80\text{V}$, $I_E=0$
I_{EBO}	Emitter Cut-off Current			1	μA	$V_{\text{EB}}=2\text{V}$, $I_C=0$
h_{FE}	DC Current Gain	40		200		$V_{\text{CE}}=10\text{V}$, $I_C=10\text{mA}$
$V_{\text{CE(sat)}}$	Collector- Emitter Saturation Voltage			1	V	$I_C=30\text{mA}$, $I_B=3\text{mA}$
f_t	Current Gain-Bandwidth Product		400		MHz	$V_{\text{CE}}=10\text{V}$, $I_C=50\text{mA}$,
C_{ob}	Output Capacitance		2.1		pF	$V_{\text{CB}}=30\text{V}$, $f=1\text{MHz}$

h_{FE} Classification

C

D

E

40—80

60—120

100—200