

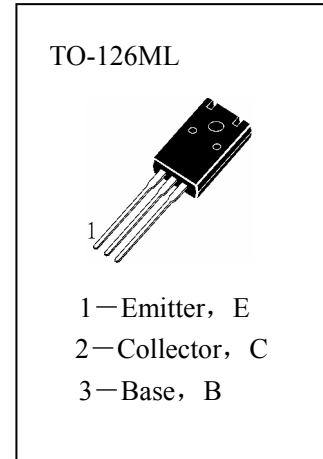
H3950

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

T _{stg}	—Storage Temperature	.....	-55~150°C
T _j	—Junction Temperature	.....	150°C
P _C	—Collector Dissipation (T _C =25°C)	.....	5W
P _C	—Collector Dissipation (T _A =25°C)	.....	1.3W
V _{CB0}	—Collector-Base Voltage	.....	30V
V _{CEO}	—Collector-Emitter Voltage	.....	20V
V _{EBO}	—Emitter-Base Voltage	.....	3V
I _C	—Collector Current	.....	500mA



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
ICBO	Collector Cut-off Current			0.1	μ A	V _{CB} =20V, I _E =0
IEBO	Emitter Cut-off Current			5	μ A	V _{EB} =2V, I _C =0
H _{FE} (1)	DC Current Gain	40		200		V _{CE} =5V, I _C =50mA
H _{FE} (2)	DC Current Gain	20				V _{CE} =5V, I _C =500mA
V _{CE(sat)}	Collector- Emitter Saturation Voltage		0.3	0.8	V	I _C =300mA, I _B =30mA
V _{BE(sat)}	Base-Emitter Saturation Voltage		0.9	1.2	V	I _C =300mA, I _B =30mA
f _T	Current Gain-Bandwidth Product		2.0		GHz	V _{CE} =5V, I _C =100mA,
C _{ob}	Output Capacitance		6.0		pF	V _{CB} =10V, f=1MHz

h_{FE} Classification

C	D	E
40—80	60—120	100—200