

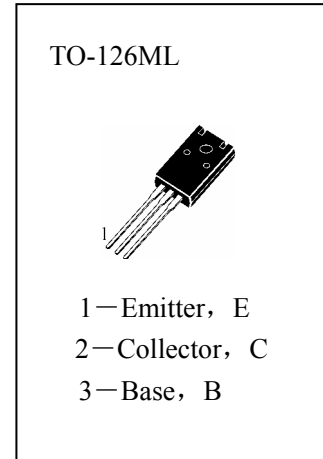
# H1357

## APPLICATIONS

. Audio Power Amplifie.

## ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

T <sub>stg</sub>	—Storage Temperature	.....	-55~150°C
T <sub>j</sub>	—Junction Temperature	.....	150°C
P <sub>C</sub>	—Collector Dissipation (T <sub>c</sub> =25°C)	.....	10W
P <sub>C</sub>	—Collector Dissipation (T <sub>A</sub> =25°C)	.....	1.5W
V <sub>CBO</sub>	—Collector-Base Voltage	.....	-35V
V <sub>CEO</sub>	—Collector-Emitter Voltage	.....	-20V
V <sub>EBO</sub>	—Emitter-Base Voltage	.....	-8V
I <sub>C</sub>	—Collector Current (Pulse)	.....	-8A
I <sub>C</sub>	—Collector Current (DC)	.....	-5A
I <sub>b</sub>	—Base Current	.....	-1A



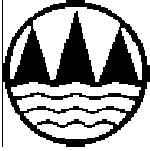
## ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	-20			V	I <sub>C</sub> =-10mA, I <sub>B</sub> =0
I <sub>CBO</sub>	Collector Cut-off Current			-100	nA	V <sub>CB</sub> =-35V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			-100	nA	V <sub>EB</sub> =-8V, I <sub>C</sub> =0
H <sub>FE</sub> (1)	DC Current Gain	140		600		V <sub>CE</sub> =-2V, I <sub>C</sub> =-0.5A
H <sub>FE</sub> (2)	DC Current Gain	70				V <sub>CE</sub> =-2V, I <sub>C</sub> =-4A
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			-1	V	I <sub>C</sub> =-4A, I <sub>B</sub> =-0.1A
V <sub>BE</sub>	Base-Emitter Voltage			-1.5	V	V <sub>CE</sub> =-2V, I <sub>C</sub> =-4A
f <sub>T</sub>	Current Gain-Bandwidth Product		170		MHZ	V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA
C <sub>ob</sub>	Output Capacitance		62		pF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz

Pulse Test: PW=10Ms (max) ,Duty Cycle=30% (min)

## h<sub>FE</sub> Classification

Y	GR	BL
140—240	200—400	300—600



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