



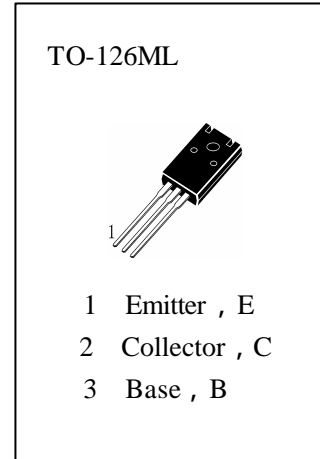
# H882

## APPLICATIONS

Audio Frequency Power Amplifier , Switching Power Amplifier.

## ABSOLUTE MAXIMUM RATINGS ( $T_a=25$ )

$T_{stg}$ —Storage Temperature.....	-55~150
$T_j$ —Junction Temperature.....	150
$P_C$ —Collector Dissipation ( $T_c=25$ ) .....	10W
$P_C$ —Collector Dissipation ( $T_A=25$ ) .....	1W
$V_{CBO}$ —Collector-Base Voltage.....	40V
$V_{CEO}$ —Collector-Emitter Voltage.....	30V
$V_{EBO}$ —Emitter-Base Voltage.....	5V
$I_C$ —Collector Current ( DC ) .....	3A
$I_b$ —Base Current ( DC ) .....	0.6A



## ELECTRICAL CHARACTERISTICS ( $T_a=25$ )

Symbol	Parameter	Min	Typ	Max	Unit	Test Conditions
$I_{CBO}$	Collector-Base Cutoff Current			1	$\mu A$	$V_{CB}=30V, I_E=0$
$I_{EBO}$	Emitter- Base Cutoff Current			1	$\mu A$	$V_{EB}=5V, I_C=0$
$h_{FE}$	DC Current Gain	60		400		$V_{CE}=-2V, I_C=1A$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage		0.3	0.5	V	$I_C=2A, I_B=0.2A$
$V_{BE(sat)}$	Base -Emitter Saturation Voltage		1.0	2.0	V	$I_C=2A, I_B=0.2A$
$C_{ob}$	Output Capacitance		45		pF	$V_{CB}=10V, I_E=0, f=1MHz$
$f_T$	Current Gain-Bandwidth Product		90		MHz	$V_{CE}=5V, I_E=0.1A$

## $h_{FE}$ Classification

R	O	Y	G
60—120	100—200	160—320	200—400



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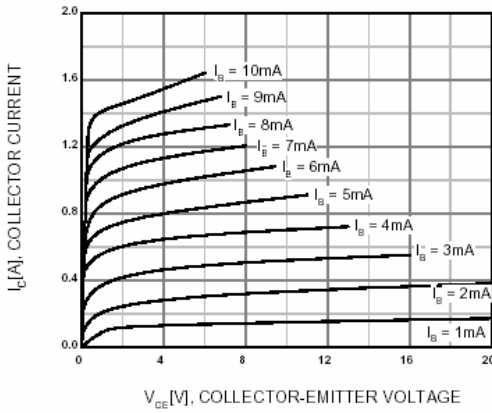


Figure 1. Static Characteristic

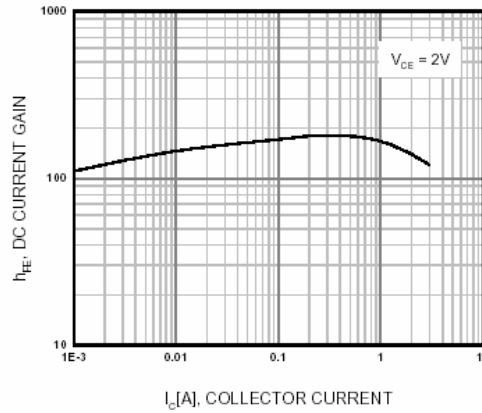


Figure 2. DC current Gain

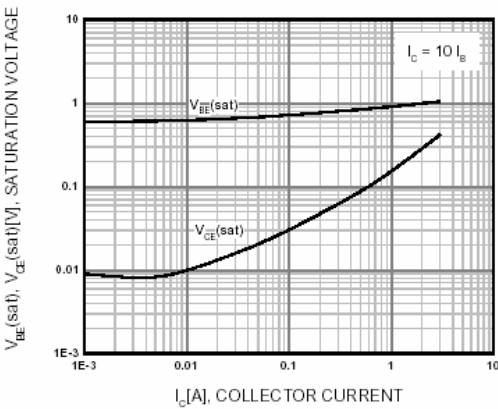


Figure 3. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage

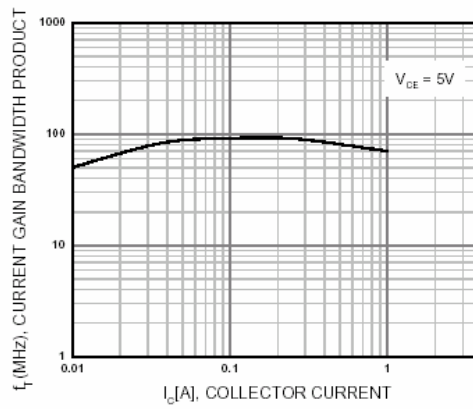


Figure 4. Current Gain Bandwidth Product

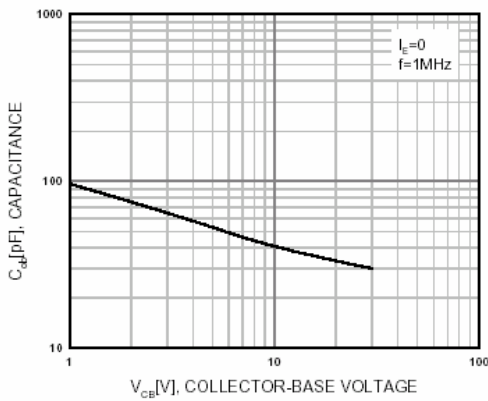


Figure 5. Collector Output Capacitance

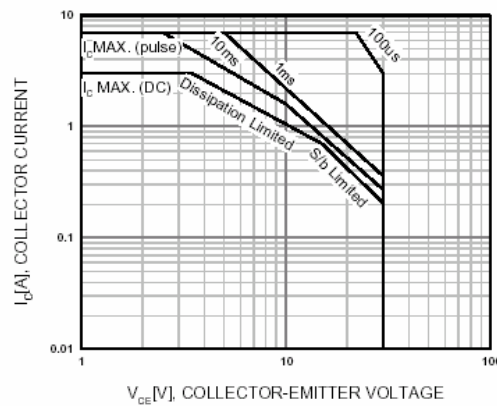


Figure 6. Safe Operating Area



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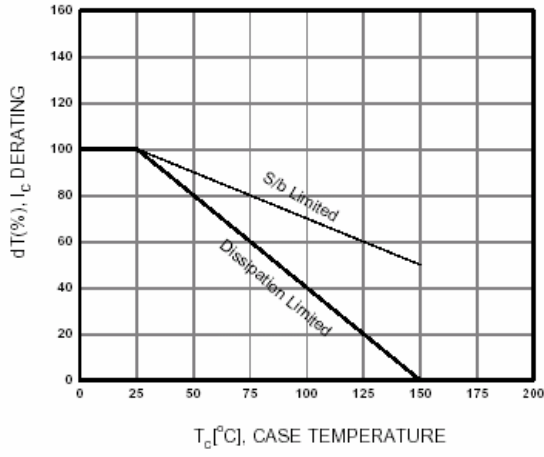


Figure 7. Derating Curve Of Safe Operating Areas

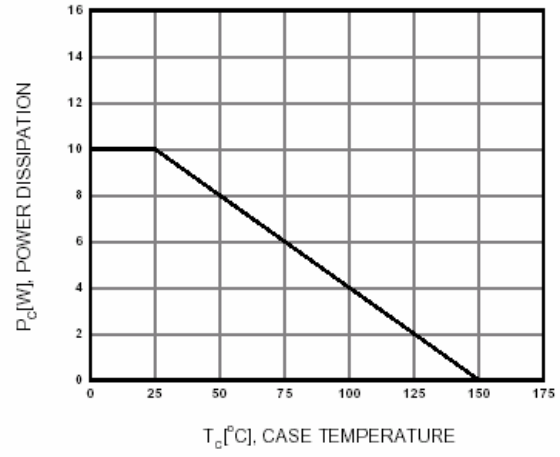


Figure 8. Power Derating