



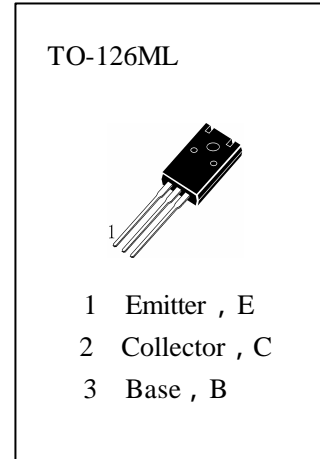
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APPLICATIONS

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	μA	$V_{CB}=30V, I_E=0$
I_{EBO}	Emitter- Base Cutoff Current			1	μA	$V_{EB}=5V, I_C=0$
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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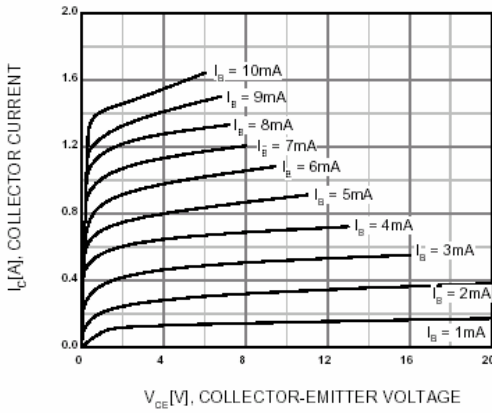


Figure 1. Static Characteristic

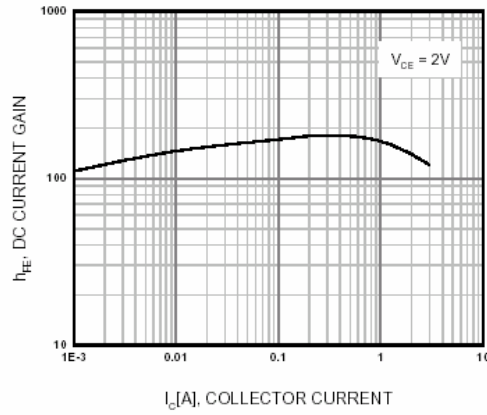


Figure 2. DC current Gain

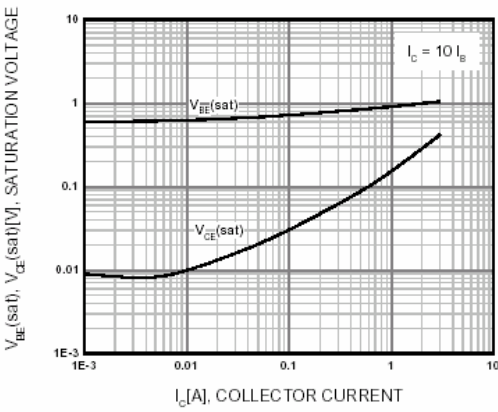


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

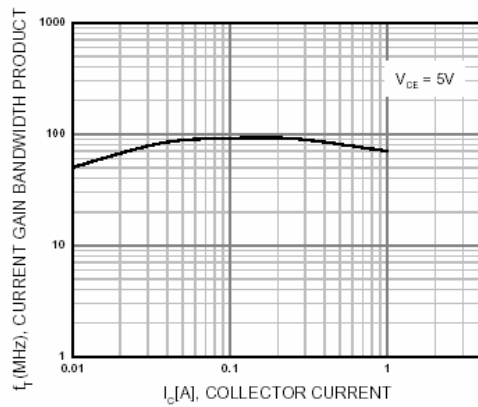


Figure 4. Current Gain Bandwidth Product

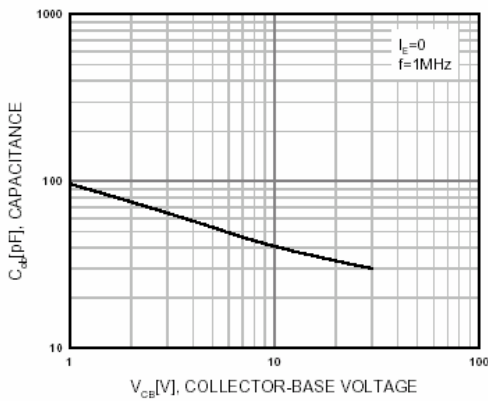


Figure 5. Collector Output Capacitance

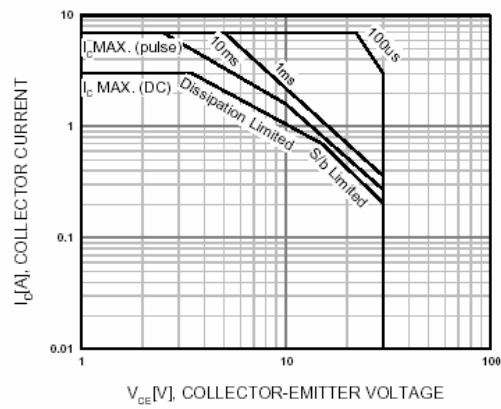


Figure 6. Safe Operating Area



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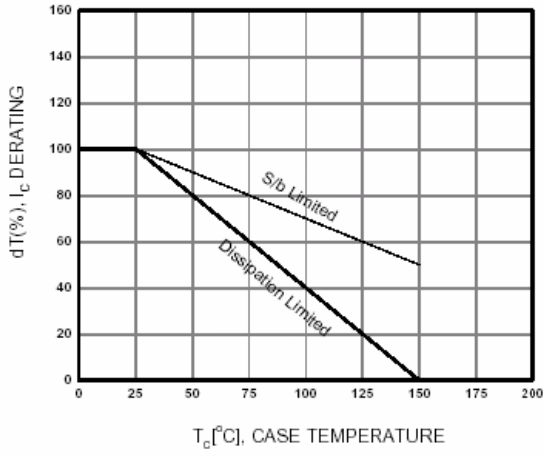


Figure 7. Derating Curve Of Safe Operating Areas

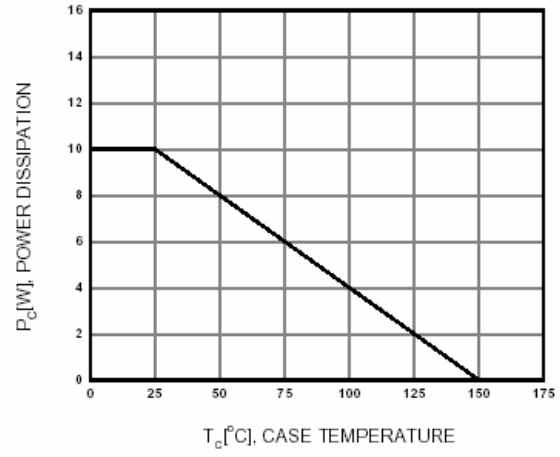


Figure 8. Power Derating