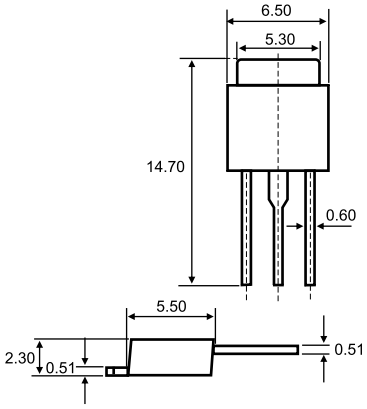
MJD122(NPN)

TO-251/TO-525-2L Transistor

1. BASE
2. COLLECTOR
3. EMITTER

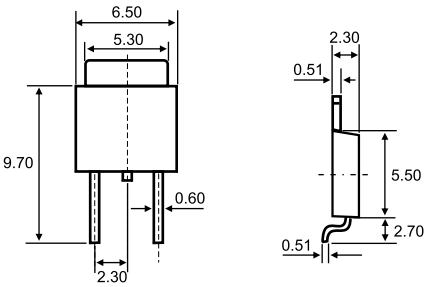
TO-251



Features

- ✧ **High DC current gain**
- ✧ **Electrically similar to popular TIP122**
- ✧ **Built-in a damper diode at E-C**

TO-252-2L



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	8	A
P_C	Collector Power Dissipation	1.5	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55-150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=1mA,I_E=0	100			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=30mA,I_B=0	100			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=3mA,I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=100V,I_E=0			10	μA
Collector-emitter cut-off current	I_{CEO}	V_{CE}=50V,I_E=0			10	μA
Emitter cut-off current	I_{EBO}	V_{EB}=5V,I_C=0			2	mA
DC current gain	$h_{FE(1)}$	V_{CE}=4V,I_C=4A	1000		12000	
	$h_{FE(2)}$	V_{CE}=4V,I_C=8A	100			
Collector-emitter saturation voltage	$V_{CE(sat)1}$	I_C=4A,I_B=16mA			2	V
	$V_{CE(sat)2}$	I_C=8A,I_B=80mA			4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=8A,I_B=80mA			4.5	V
Base-emitter voltage	V_{BE}	V_{CE}=4V,I_C=4A			2.8	V
Collector output capacitance	C_{ob}	V_{CB}=10V,I_E=0,f=0.1MHz			200	pF

Typical Characteristics

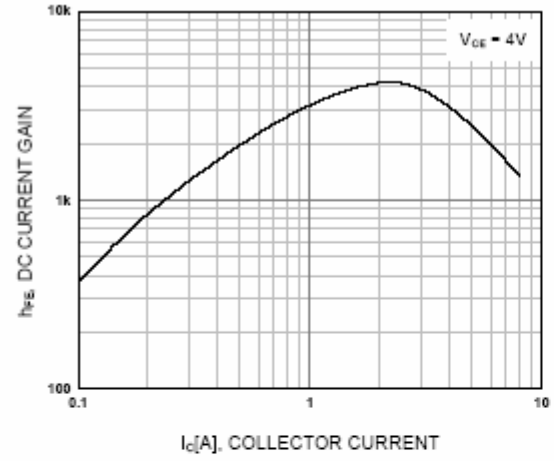


Figure 1. DC current Gain

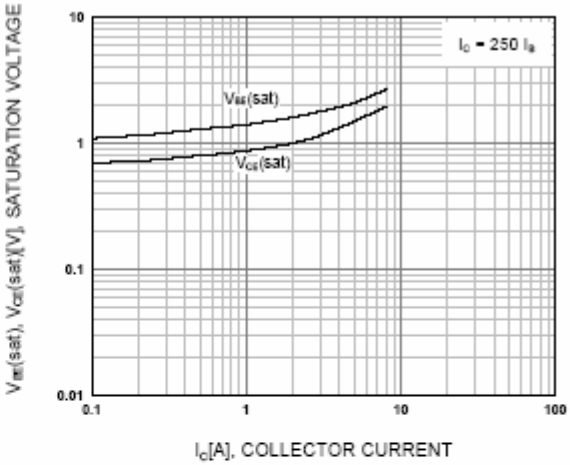


Figure 2. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

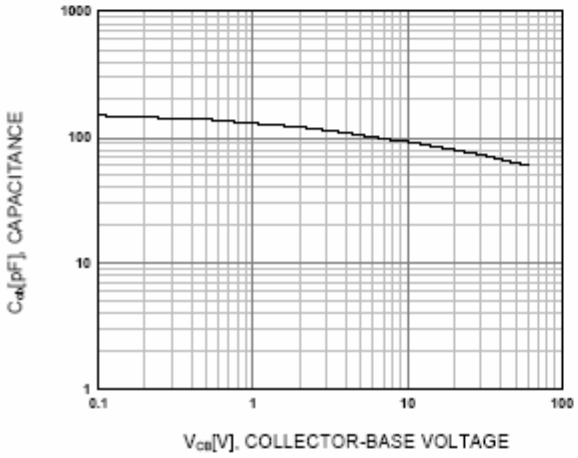


Figure 3. Collector Output Capacitance

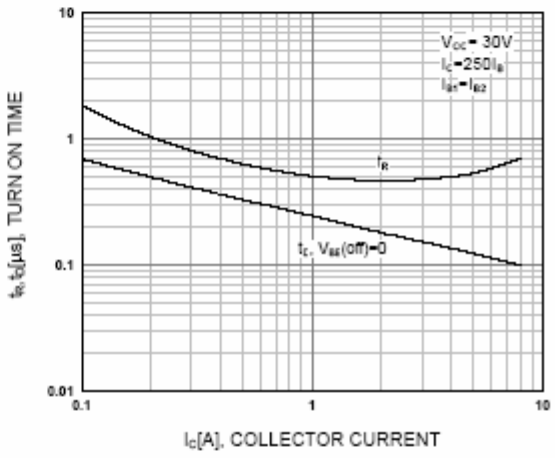


Figure 4. Turn On Time

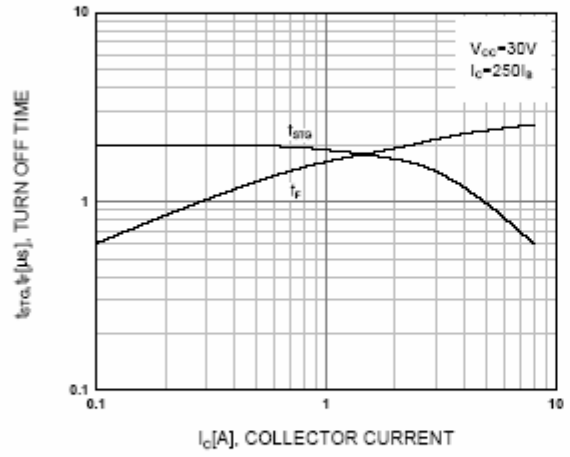


Figure 5. Turn Off Time

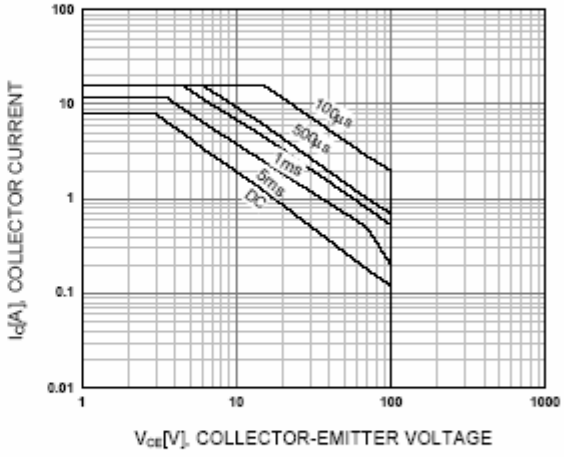


Figure 6. Safe Operating Area

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