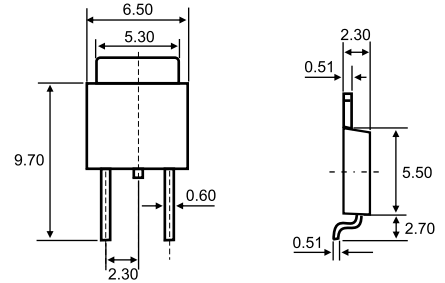




1. BASE
2. COLLECTOR
3. EMITTER

TO-252-2L



Dimensions in inches and (millimeters)

Features

- ✧ High h_{FE} $h_{FE}=100$ to 400
- ✧ LOW $V_{CE(sat)}$ $V_{CE(sat)} \leq 0.3V$

MAXIMUM RATINGS ($T_A=25^\circ C$ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CB0}	Collector-Base Voltage	-60	V
V_{CE0}	Collector-Emitter Voltage	-60	V
V_{EB0}	Emitter-Base Voltage	-7	V
I_C	Collector Current -Continuous	-3	A
P_D	Collector Power Dissipation	2	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55-150	$^\circ C$

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^\circ C$ unless otherwise specified)

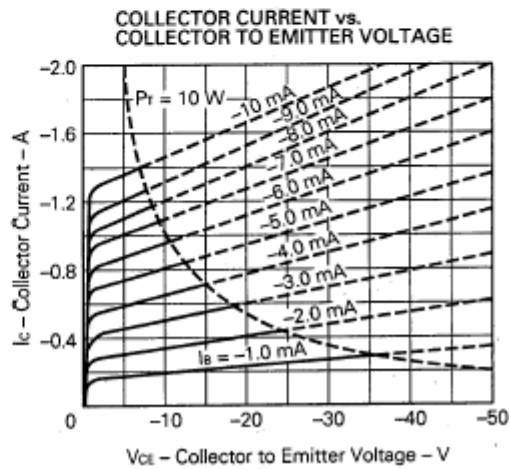
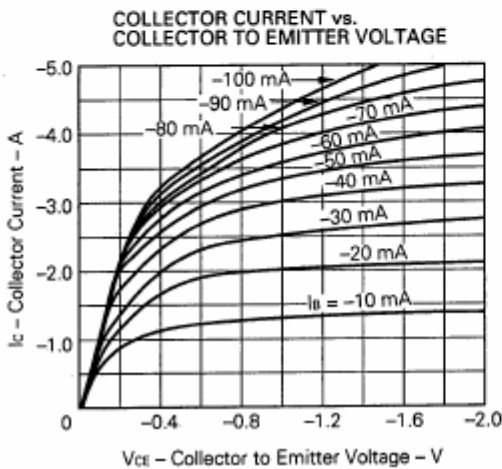
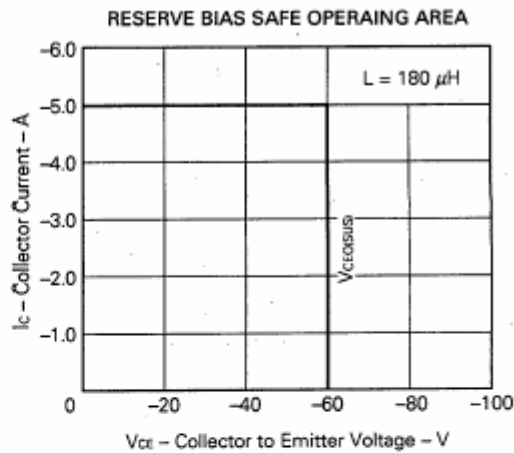
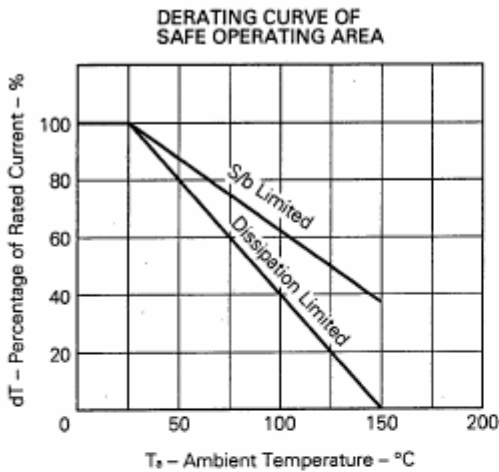
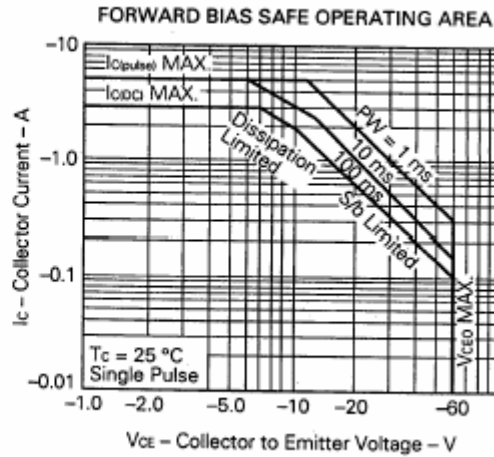
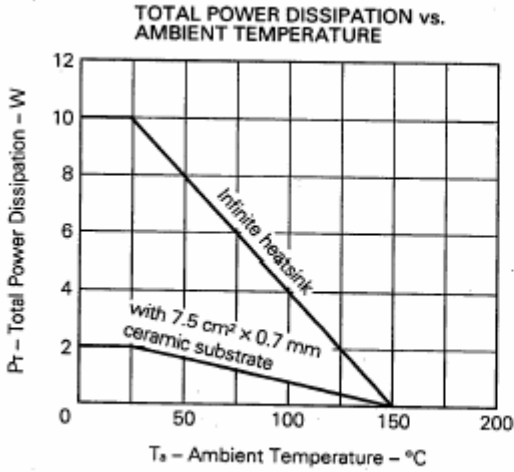
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-60			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-7			V
Collector cut-off current	I_{CBO}	$V_{CB}=-60V, I_E=0$			-10	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-7V, I_C=0$			-10	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-2V, I_C=-200mA$	60			
	$h_{FE(2)}$	$V_{CE}=-2V, I_C=-600mA$	100		400	
	$h_{FE(3)}$	$V_{CE}=-2V, I_C=-2A$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-1.5A, I_B=-150mA$			-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-1.5A, I_B=-150mA$			-1.2	V
Transition frequency	f_T	$V_{CE}=-5V, I_C=-1.5A$		50		MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		40		pF
Switching Time	Turn on Time	t_{on}		0.5		μs
	Storage Time	t_{stg}	$V_{CC}=-10V, I_C=-1A, I_{B1}=-I_{B2}=-0.1A, R_L=10\Omega$	2.0		
	Fall Time	t_f		0.5		

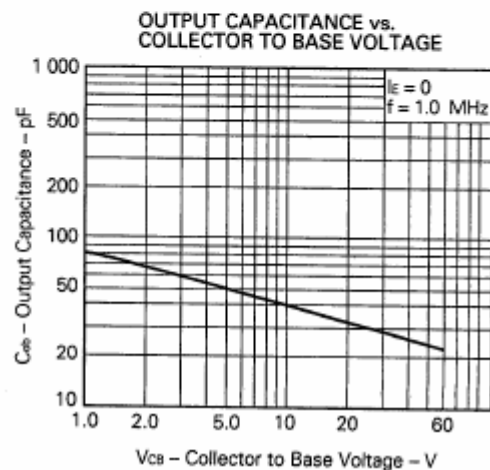
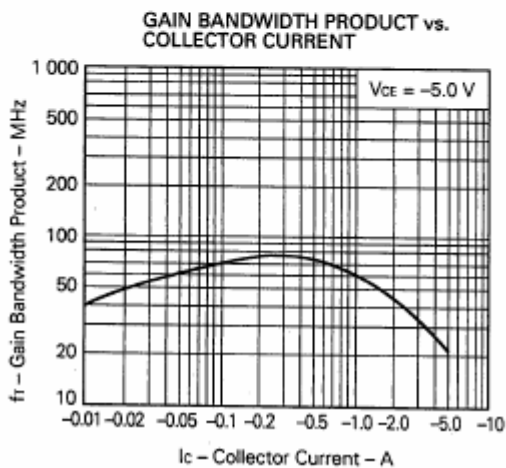
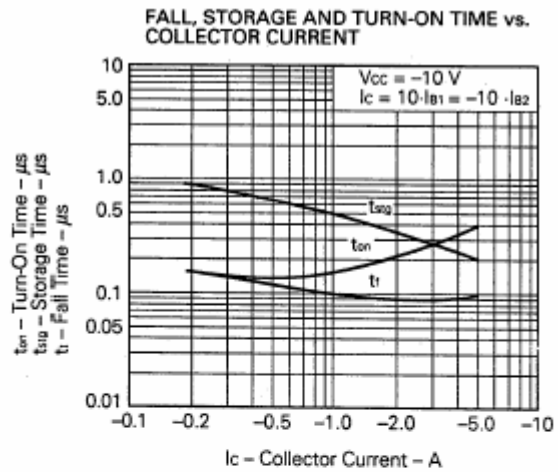
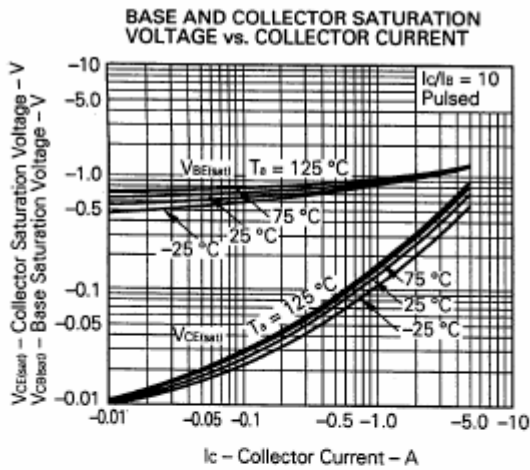
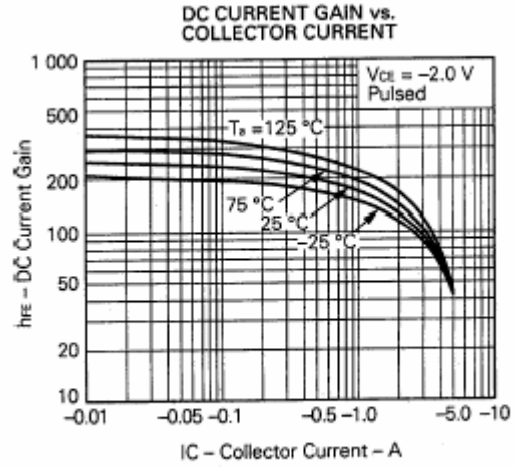
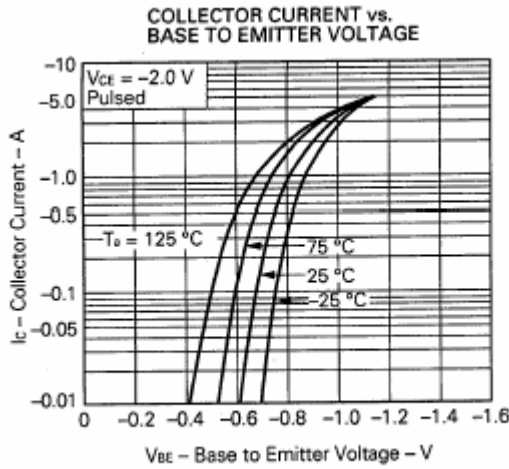
CLASSIFICATION OF $h_{FE(1)}$

Rank	M	L	K
Range	100-200	160-320	200-400



Typical Characteristics





Package	Packing	Box Size L×W×H(mm)	Quantity(pcs/box)	Carton Size L×W×H(mm)	Quantity(pcs/carton)
TO-252	80pcs/Tube	560×150×50	4000	570×290×180	40000
TO-252	2500pcs/Reel	335×335×40	2500	370×370×440	12500/25000