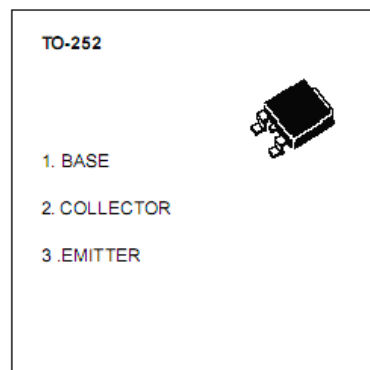


TO-252 Plastic-Encapsulate Transistors

D882 TRANSISTOR (NPN)**FEATURES**

- Power dissipation

**MAXIMUM RATINGS** (TA=25°C unless otherwise noted)

Symbol (符号)	Parameter (参数名称)	Value (额定值)	Units (单位)
VCBO	Collector-Base Voltage (集电极-基极电压)	40	V
VCEO	Collector-Emitter Voltage (集电极-发射极电压)	30	V
VEBO	Emitter-Base Voltage (发射极-基极电压)	6	V
IC	Collector Current -Continuous (集电极电流)	3.0	A
PC	Collector Power Dissipation (耗散功率)	1.25	W
TJ	Junction Temperature (结温)	150	°C
Tstg	Storage Temperature (储存温度)	-55-150	°C

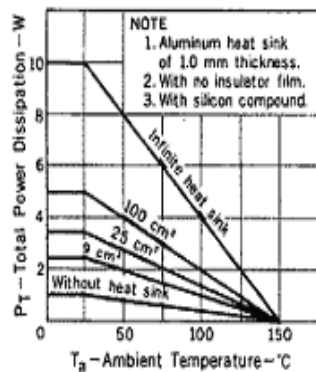
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter (参数名称)	Symbol (符号)	Test conditions (测试条件)	MIN (最小值)	TYP (典型值)	MAX (最大值)	UNIT (单位)
Collector-base breakdown voltage 集电极-基极击穿电压	V(BR)CB O	IC= 100μA, IE=0	40			V
Collector-emitter breakdown voltage 集电极-发射极击穿电压	V(BR)CE O	IC= 1mA, IB=0	30			V
Emitter-base breakdown voltage 发射极-基极击穿电压	V(BR)EBO	IE=100μA, IC=0	6			V
Collector cut-off current 集电极-基极截止电流	ICBO	VCB=30 V, IE=0			1	μ A
Collector cut-off current 集电极-发射极截止电流	ICEO	VCE=25V, IB=0			10	μ A
Emitter cut-off current 发射极-基极截止电流	IEBO	VEB=5V, IC=0			1	μ A
DC current gain 直流电流增益	hFE	VCE=2V, IC= 1A	100		400	
DC current gain 直流电流增益	hFE	VCE=2V, IC= 500mA	80			
Collector-emitter saturation voltage 集电极-发射极饱和电压	VCE(sat)	IC=2A, IB=200mA			0.3	V
Base-emitter saturation voltage 发射极-基极饱和电压	VBE(sat)	IC=2A, IB=200mA			1.2	V

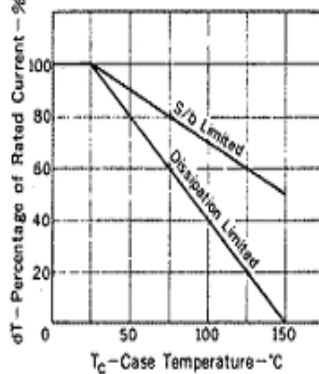
CLASSIFICATION OF hFE

Range	150-200	200-300	300-400	
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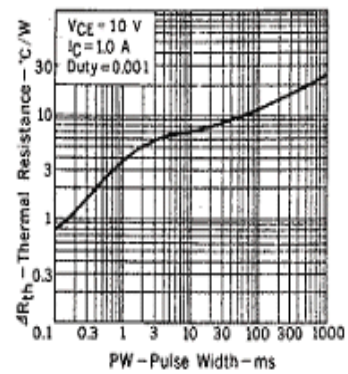
TOTAL POWER DISSIPATION vs. AMBIENT TEMPERATURE



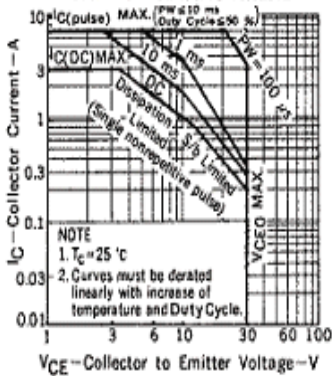
DERATING CURVES FOR ALL TYPES



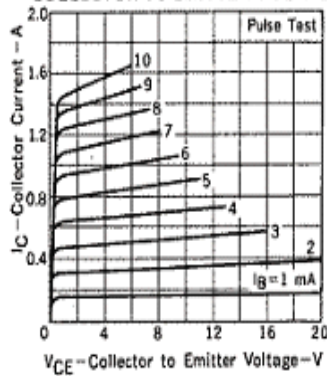
THERMAL RESISTANCE vs. PULSE WIDTH



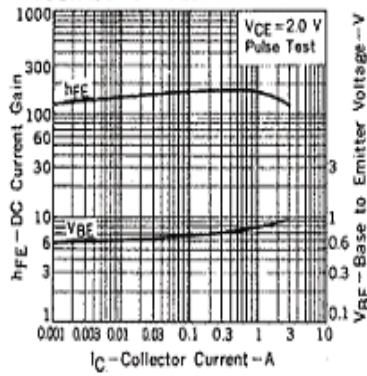
SAFE OPERATING AREAS



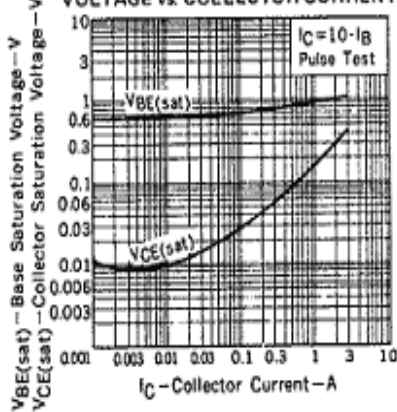
COLLECTOR CURRENT vs. COLLECTOR TO EMITTER VOLTAGE



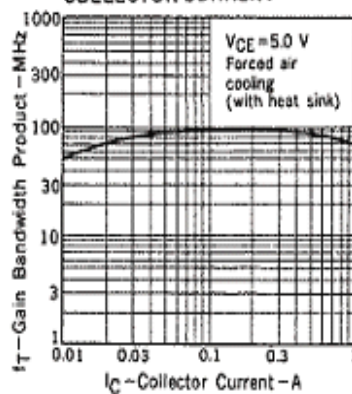
DC CURRENT GAIN, BASE TO EMITTER VOLTAGE vs. COLLECTOR CURRENT



BASE AND COLLECTOR SATURATION VOLTAGE vs. COLLECTOR CURRENT



GAIN BANDWIDTH PRODUCT vs. COLLECTOR CURRENT



INPUT AND OUTPUT CAPACITANCE vs. REVERSE VOLTAGE

