D882

TRANSISTOR (NPN)

FEATURES

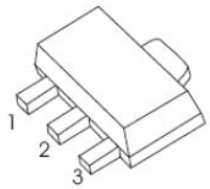
Power dissipation

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	30	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	3	A
P_C	Collector Power Dissipation	0.5	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

SOT-89

1. BASE
2. COLLECTOR
3. EMITTER



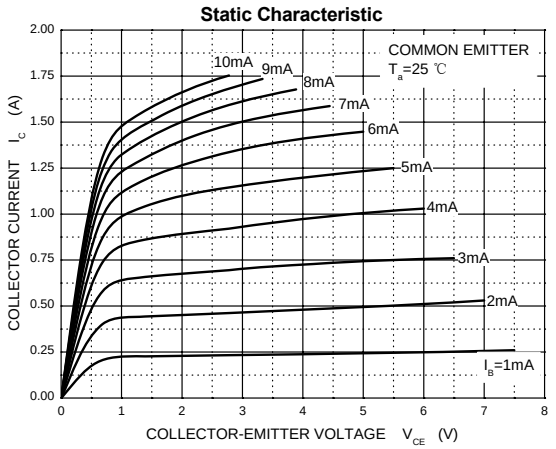
ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

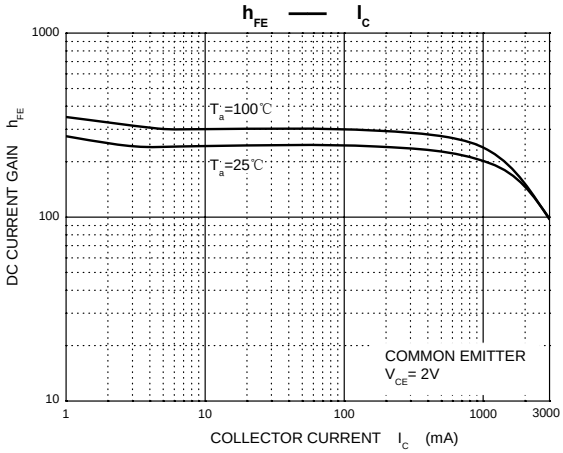
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V(BR)_{CBO}$	Ic=100uA ,I_E=0	40			V
Collector-emitter breakdown voltage	$V(BR)_{CEO}$	I_C= 10 mA , I_B=0	30			V
Emitter-base breakdown voltage	$V(BR)_{EBO}$	I_E= 100 mA ,I_C=0	6			V
Collector cut-off current	I_{CBO}	V_{CB}=40 V , I_E=0			1	uA
Collector cut-off current	I_{CEO}	V_{CE}=30 V , I_B=0			10	uA
Emitter cut-off current	I_{EBO}	V_{EB}=6V , I_C=0			1	uA
DC current gain	$h_{FE(1)}$	V_{CE}= 2V, I_C= 1A	60		400	
	$h_{FE(2)}$	V_{CE}=2V, I_C= 100mA	32			
Collector-emitter saturation voltage	V_{CE}(sat)	I_C=2A, I_B= 0.2A			0.5	V
Base-emitter saturation voltage	V_{BE}(sat)	I_C=2A, I_B= 0.2A			1.5	V
Transition frequency	f_T	V_{CE}=5 V, I_C=0.1mA f = 10MHz	50			MHz

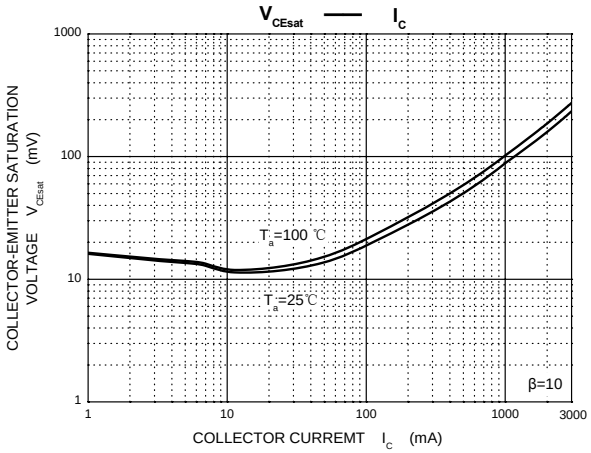
CLASSIFICATION OF $hFE_{(1)}$

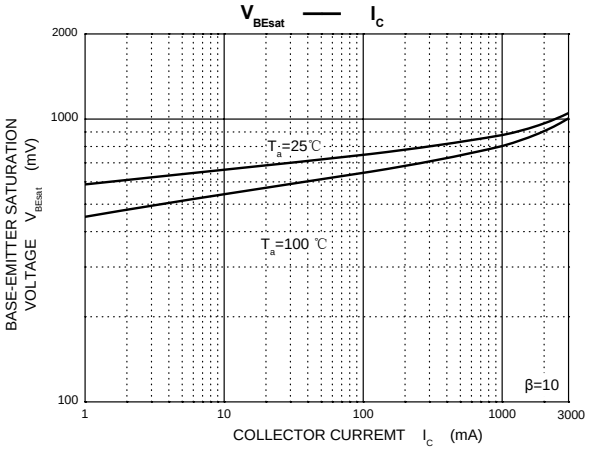
Rank	R	O	Y	GR
Range	60-120	100-200	160-320	200-400

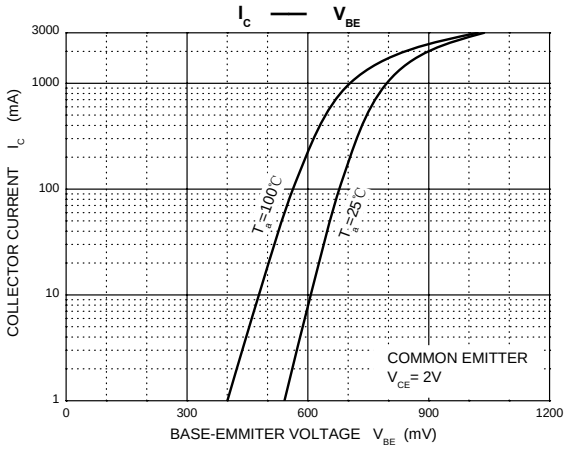
Typical Characteristics

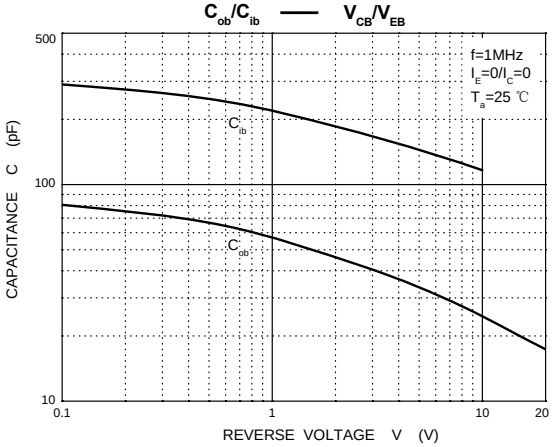


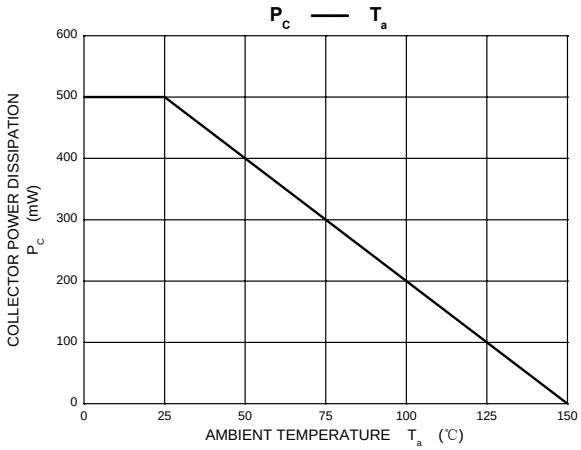




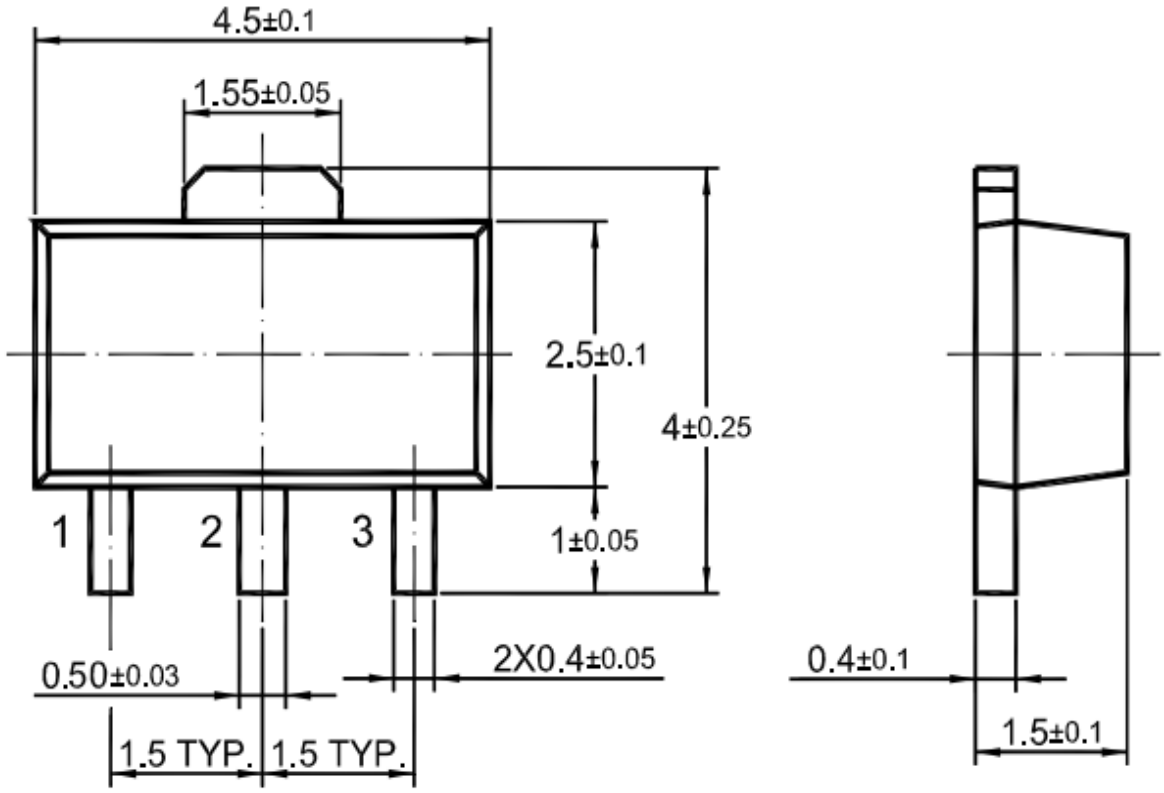








Package Outline
SOT-89
Dimensions in mm



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