2SD882RT

DATASHEET

Specification Revision History:

Version	Date	Description
V1.0	2020/08	New
V1.1	2021/05	Modify Ordering Information
V1.2	2023/02	Modify Ordering Information
V1.3	2025/05	Add application precautions and overall typesetting.
V1.4	2026/10	Corrected product parameters .

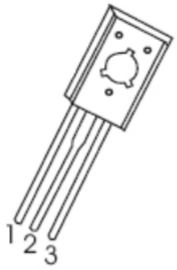
FEATURES

※ TRANSISTOR (NPN)

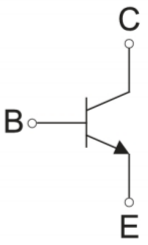
※ Low Speed Switching

APPEARANCE & PINNING





1. EMITTER
2. COLLECTOR
3. BASE



TO-126

ORDERING INFORMATION

Product Model	Package Type	Packing	Packing Qty
2SD882RT	TO-126	BULK	200PCS/BAG

MAXIMUM RATINGS (Ta=25°C 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	1.25	W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55-150	°C

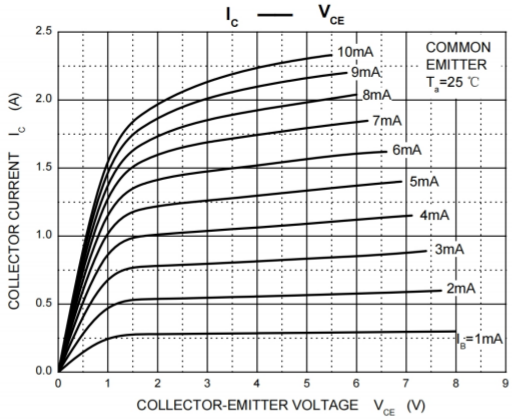
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

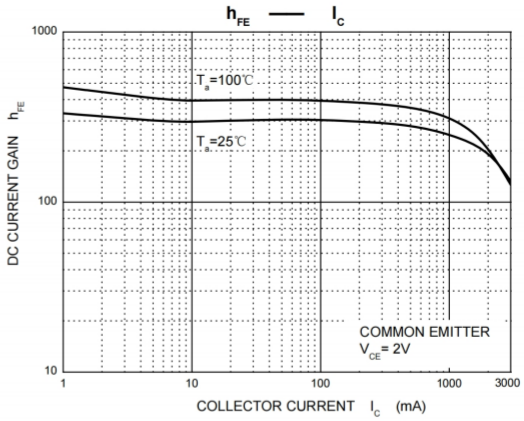
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C= 100μA , I_E =0	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C= 10mA , I_B=0	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E= 100μA, I_C=0	6			V
Collector cut-off current	I_{CBO}	V_{CB}= 40V, I_E=0			1	μA
Collector cut-off current	I_{CEO}	V_{CE}= 30V, I_B=0			10	μA
Emitter cut-off current	I_{EBO}	V_{EB}= 6V, I_C=0			1	μA
DC current gain	h_{FE}	V_{CE}= 2V, I_C= 1A	60		400	
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}= 5V, I_C=0.1A f=10MHz		90		MHz

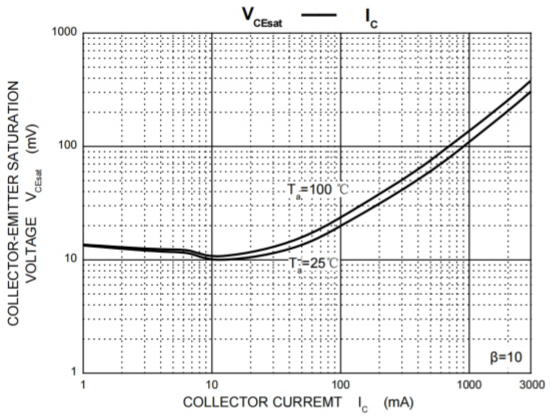
CLASSIFICATION OF hFE

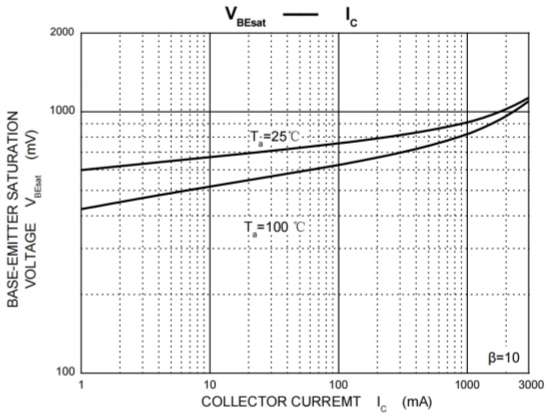
Rank	R	O	Y	GR
Range	60-120	100-200	160-320	200-400

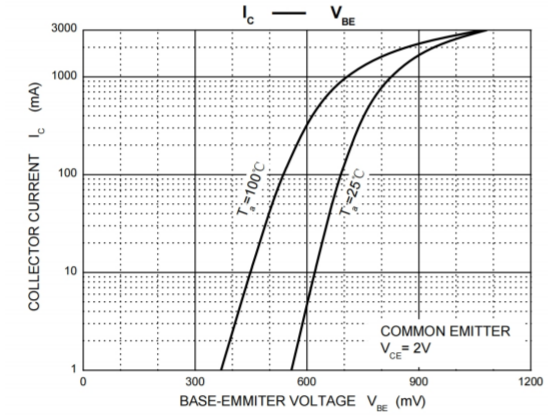
TYPICAL CHARACTERISTICS

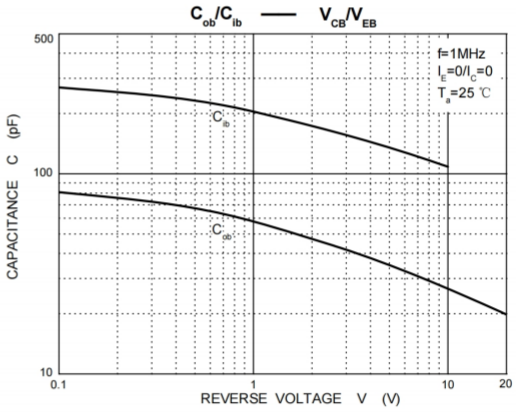


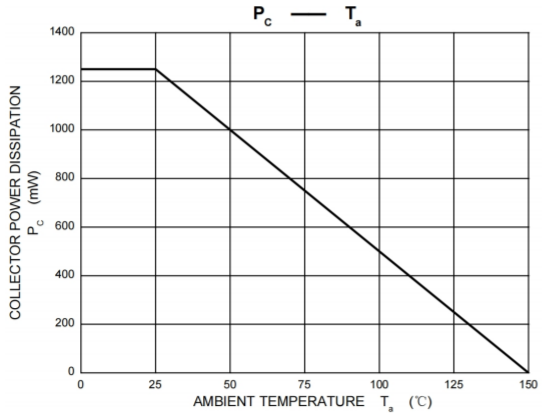












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