

2SD882RT

DATASHEET

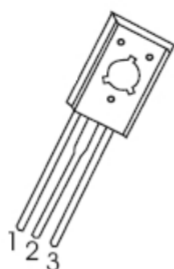
Specification Revision History:

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.

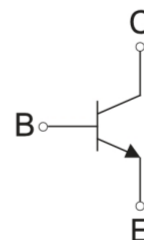
FEATURES

- ※ TRANSISTOR
- ※ 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	-30	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_c	Collector Current-Continuous	-1.5	A
P_C	Collector Power Dissipation	1.25	W
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	100	°C/W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55-150	°C

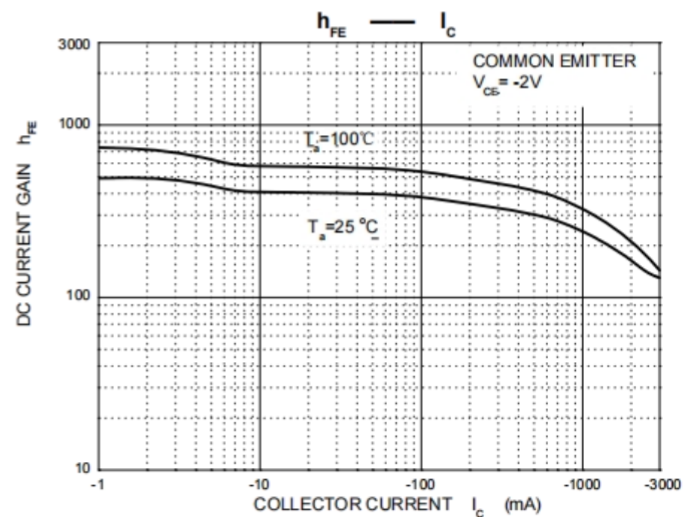
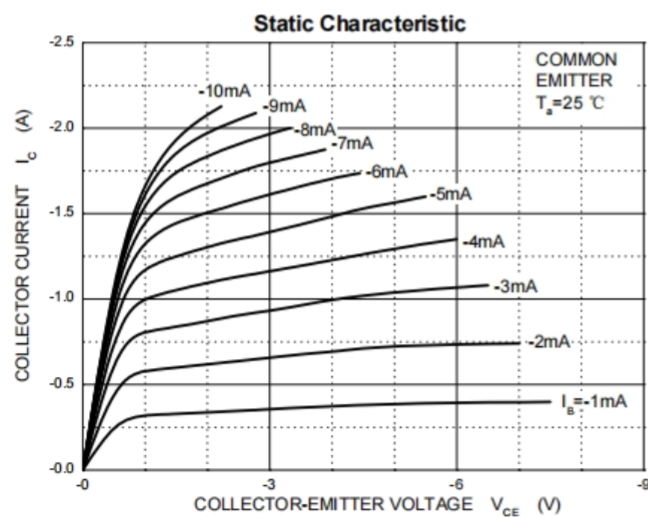
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

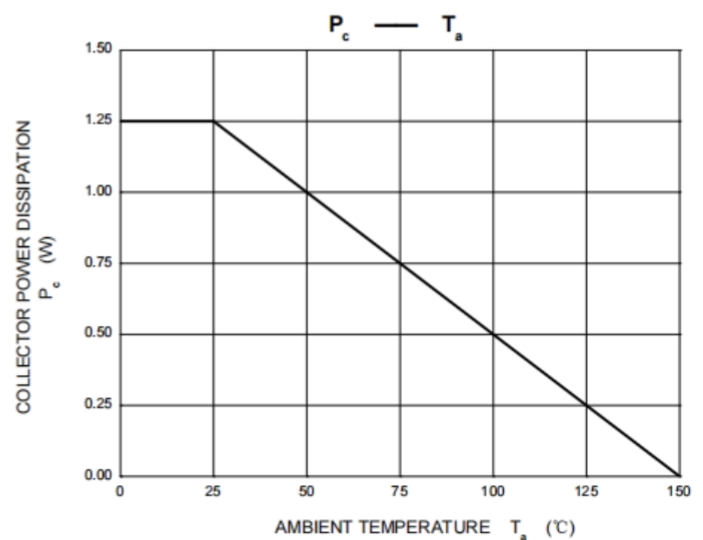
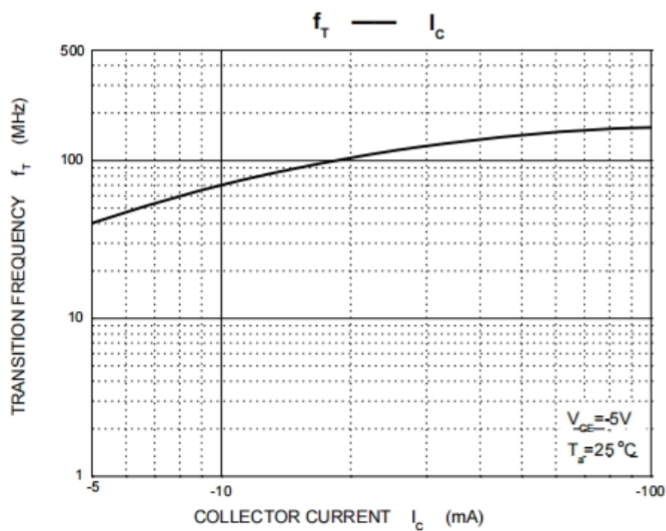
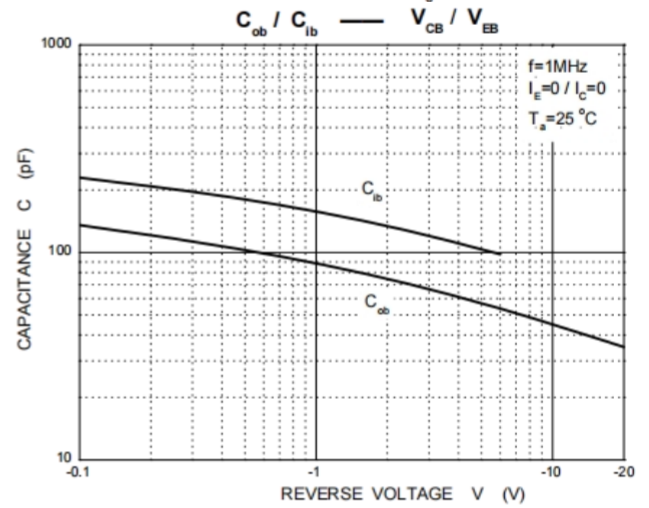
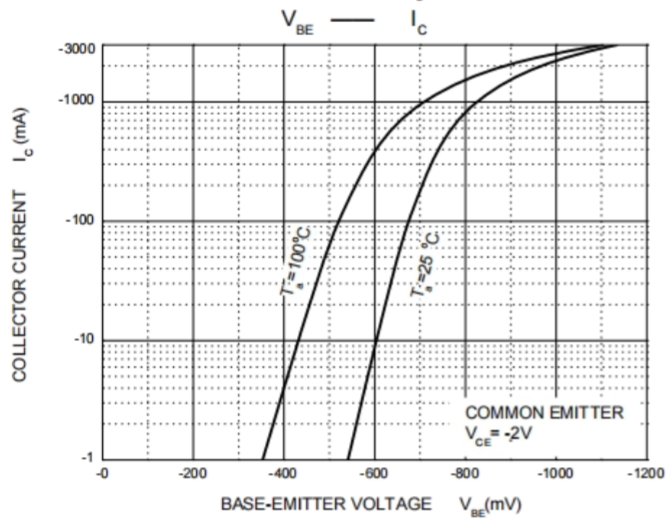
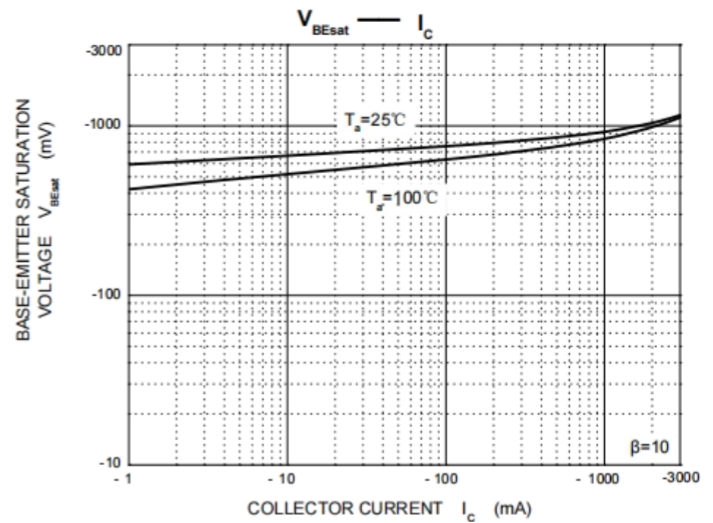
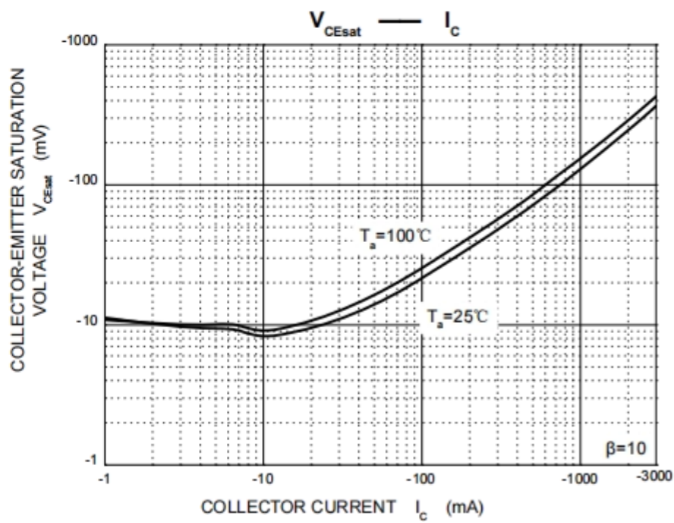
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-6			V
Collector cut-off current	I_{CBO}	$V_{CB} = -30V, I_E = 0$			-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	$V_{CE(sat)}$	$I_C = -1.5A, I_B = -0.2A$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1.5A, I_B = -0.2A$			-1.5	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -0.1A$ $f = 10MHz$	50	80		MHz

CLASSIFICATION OF h_{FE}

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

CLASSIFICATION OF h_{FE}





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