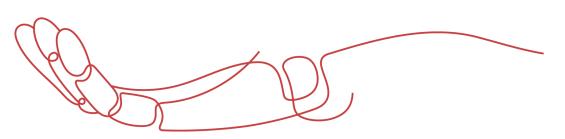


PRODUCT DATA SHEET



To learn more about JGSEMI, please visit our website at







Datasheet

Samples

Please note: Please check the JINGAO Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.jg-semi.cn. Please email any questions regarding the system integration to JINGAO_questions@jgsemi.com.



SOT-223 Transistor(NPN)

Features

- ♦ Complementary to CZT127
- ♦ Silicon Power Darlington Transistors
- Low speed switching and amplifier applications



1. BASE

2. COLLECTOR

3. EMITTER

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

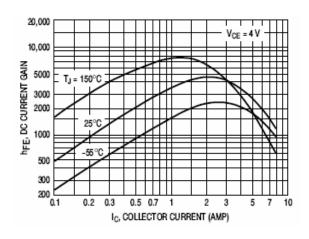
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	100	٧	
V _{CEO}	Collector-Emitter Voltage	100	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	5	Α	
Pc	Collector Power Dissipation	1	W	
Tj	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-65-150	$^{\circ}$	

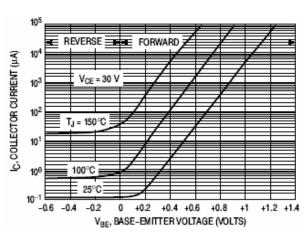
ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

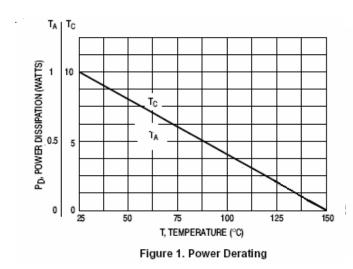
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =1m A,I _E =0	100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =30mA,I _B =0	100			V
Collector cut-off current	I _{CBO}	V _{CB} =100V,I _E =0			200	uA
Base cut-off current	I _{CEO}	V _{CE} =50V,I _B =0			500	uA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			2	mA
DC ourrent gain	h _{FE(1)}	V _{CE} =3V,I _C =0.5A	1000			
DC current gain	h _{FE(2)}	V _{CE} =3V,I _C =3A	1000			
Callactor emitter acturation valtage	V _{CE(sat)1}	I _C =3A,I _B =12mA			2	V
Collector-emitter saturation voltage	V _{CE(sat)2}	I _C =5A,I _B =20mA			4	V
Base-emitter voltage	V _{BE(on)}	V _{CE} =3V,I _C =3A			2.5	V
Transition frequency	f _T	V _{CE} =4V,I _C =3A,f=1MHz	4			MHz
Collector output capacitance	Cob	V _{CB} =10V, I _E =0, f=1.0MHz			200	pF

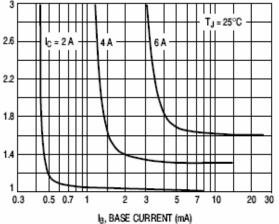


Typical Characteristics











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