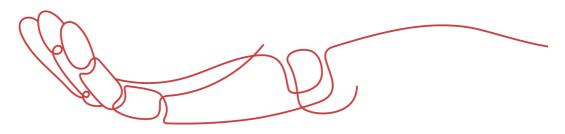


PRODUCT DATA SHEET



To learn more about JGSEMI, please visit our website at



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.



PZTA64

SOT-223 Plastic-Encapsulate Transistors

	SOT-223
FEATURES	1. BASE
Low Voltage and High CurrentHigh Current Gain Applications	1 2 2 2. COLLECTOR 3
	3. EMITTER

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

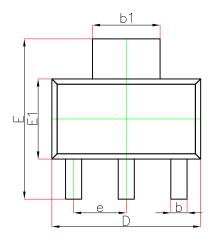
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-10	V
Ic	Collector Current	-500	mA
Pc	Collector Power Dissipation	1	W
R _{0JA}	Thermal Resistance From Junction To Ambient	125	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	ĉ

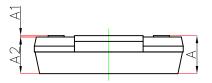
ELECTRICAL CHARACTERISTICS (T_a=25[°]C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-emitter breakdown voltage	V _{(BR)CES}	I _C =-0.1mA,I _B =0	-30			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-10V, I _C =0			-100	nA
DC current gain	h _{FE(1)} *	V _{CE} =-5V, I _C =-10mA	10000			
DC current gain	h _{FE(2)} *	V _{CE} =-5V, I _C =-100mA	20000			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =-100mA,I _B =-0.1mA			-1.5	V
Base-emitter voltage	V _{BE} *	V _{CE} =-5V, I _C =-100mA			-2	V
Transition frequency	f⊤	Vce=-5V,Ic=-10mA, f=100MHz	125			MHz

*Pulse test: pulse width \leq 350µs, duty cycle \leq 2.0%.



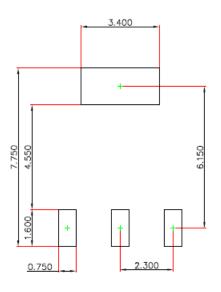




-	C C	
i	GAUGE PLANE)

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
А		1.800		0.071
A1	0.020	0.100	0.001	0.004
A2	1.500	1.700	0.059	0.067
b	0.660	0.840	0.026	0.033
b1	2.900	3.100	0.114	0.122
С	0.230	0.350	0.009	0.014
D	6.300	6.700	0.248	0.264
Е	6.700	7.300	0.264	0.287
E1	3.300	3.700	0.130	0.146
е	2.300(BSC)		0.091(BSC)
L	0.750		0.030	
θ	0°	10°	0°	10°

SOT-223 Suggested Pad Layout



Note:

1.Controlling dimension:in millimeters.

2.General tolerance:±0.050mm.

3. The pad layout is for reference purposes only.





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