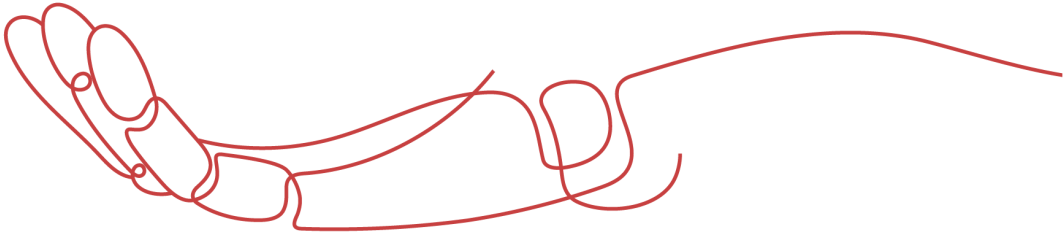




PRODUCT DATA SHEET



To learn more about JGSEMI, please visit our website at



Datasheet



Resources

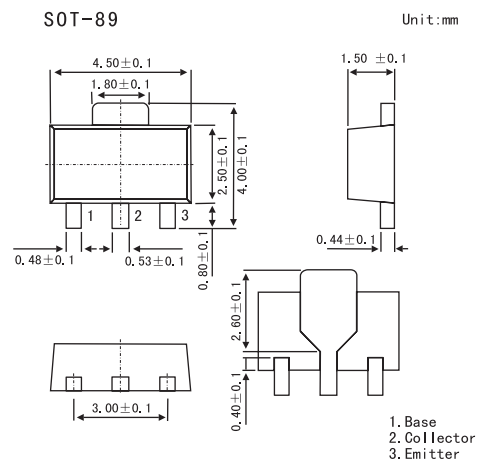


Samples

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.

■ Features

- 400 Volt V_{CE0}
- $P_{tot} = 1$ Watt



■ Absolute Maximum Ratings $T_a = 25^{\circ}\text{C}$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	400	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	300	mA
Peak Pulse Current	I_{CM}	1	A
Base Current	I_B	200	mA
Power Dissipation at $T_{amb}=25^{\circ}\text{C}$	P_{tot}	2	W
Operating and Storage Temperature Range	$T_J; T_{stg}$	-55 to +150	$^{\circ}\text{C}$

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Max	Unit
Breakdown Voltages	V _{(BR)CBO}	I _C =100μA	400		V
Breakdown Voltages	V _{CEO(sus)}	I _C =10mA*	400		V
Breakdown Voltages	V _{(BR)EBO}	I _E =100μA	5		V
Collector Cut-Off Currents	I _{CBO}	V _{CB} =320V		100	nA
Collector Cut-Off Currents	I _{CES}	V _{CE} =320V		100	nA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =4V		100	nA
Emitter Saturation Voltages	V _{CE(sat)}	I _C =20mA, I _B =2mA*		0.2	V
		I _C =50mA, I _B =6mA*		0.5	V
	V _{BE(sat)}	I _C =50mA, I _B =5mA*		0.9	V
Base-Emitter Turn On Voltage	V _{BE(on)}	I _C =50mA, V _{CE} =10V*		0.9	V
Static Forward Current Transfer Ratio	h _{FE}	I _C =1mA, V _{CE} =10V	100		
		I _C =50mA, V _{CE} =10V*	100	300	
		I _C =100mA, V _{CE} =10V*	15		
Transition Frequency	f _T	I _C =10mA, V _{CE} =20V, f=20MHz	50		MHz
Collector-Base Breakdown Voltage	C _{obo}	V _{CB} =20V, f=1MHz		5	pF
Switching times	t _{on}	I _C =50mA, V _{CC} =100V	135 Typical		ns
	t _{off}	I _{B1} =5mA, I _{B2} =-10mA	2260 Typical		ns

* Measured under pulsed conditions. Pulse width=300μs. Duty cycle ≤ 2%

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