SOT-23

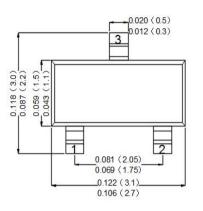


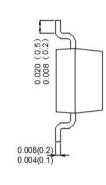
Features

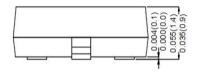
- Low current (max. 30 mA)
- Low Voltage (max. 20 V)

Mechanical Data

- Case:Molded Plastic,SOT-23
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable perMIL-STD-750,Method-2026.
- Marking: F2
- Mounting Position : Any.
- Equivalent Circuit:







Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Max	Unit
Collector-base voltage (Emitter open)	Vсво	30	V
Collector-emitter voltage (Base open)	VCEO	20	V
Emitter-base voltage (Collector open)	VEBO	5	V
Collector current	Ic	30	mA
Peak collector current	Ісм	30	mA
Total power dissipation	Ptot	250	mW
Storage temperature	Tstg	150	°C
Junction temperature	Tj	150	°C
Operating ambient temperature	Tamb	150	°C

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base Breakdown voltage	ВУсво	Ic = 100 μA , IE = 0	30			V
Collector-emitter Breakdown voltage	BVceo	Ic = 1mA, IB = 0	20			V
Emitter-base Breakdown voltage	ВVево	IE = 100 μA , IC = 0	5			V
Collector-base cutoff current	Ісво	VcB = 20 V , IE = 0			100	nA
		Vcb = 20 V , IE = 0, Tj = 100℃			10	μΑ
Emitter-base cutoff current	ІЕВО	VEB = 5.0 V , IC = 0			100	nA
Forward current transfer ratio	hFE	Vce = 10 V , Ic = 1.0 mA	65		225	
Emitter-base voltage	VBE	VcE = 10 V , Ic = 1.0 mA	650		740	mV
Transition frequency	fτ	VcE = 10 V , Ic = 1 mA ,f = 100 MHZ		260		MHz
Collector capacitance	Сс	Vсв = 10 V , IE = 1 mA ,f = 1 MHZ		1		pF
Feedback capacitance	Cre	VcB = 10 V , Ic = 0 mA, f = 1 MHz		0.85		pF

version:00 1 of 2



Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without from XINNUO.
- XINNUO reserves the right to make changes to this document and its products and specifications.
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown her are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.

version:00 2 of 2