



PRODUCT DATA SHEET



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Datasheet



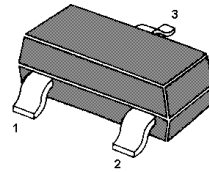
Resources



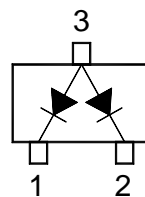
Samples

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.

For small current rectification and switching applications



SOT-23



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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Average Forward Current	$I_{F(AV)}$	200	mA
Non-Repetitive Peak Forward Surge Current (8.3 ms)	I_{FSM}	1	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	40	-	-	V
Forward Voltage at $I_F = 10 \text{ mA}$ at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V_F	- - -	- - -	300 420 550	mV
Reverse Current at $V_R = 30 \text{ V}$ at $V_R = 30 \text{ V}, T_J = 100^\circ\text{C}$	I_R	- -	- -	15 3	μA mA
Diode Capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	C_d	-	23	50	pF

Electrical Characteristics Curves

Fig 1. Reverse Characteristics Curve

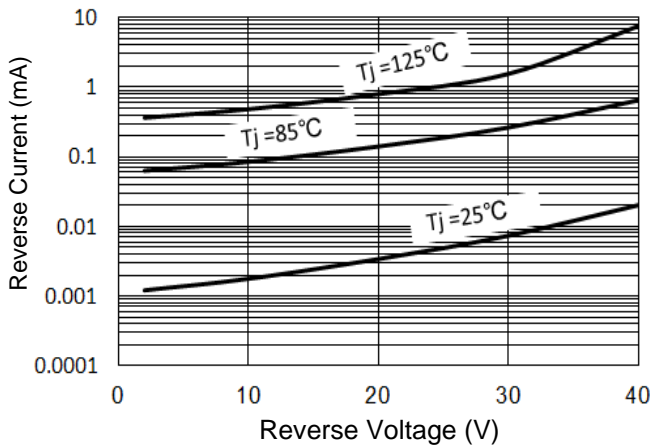


Fig 2. Forward Characteristics Curve

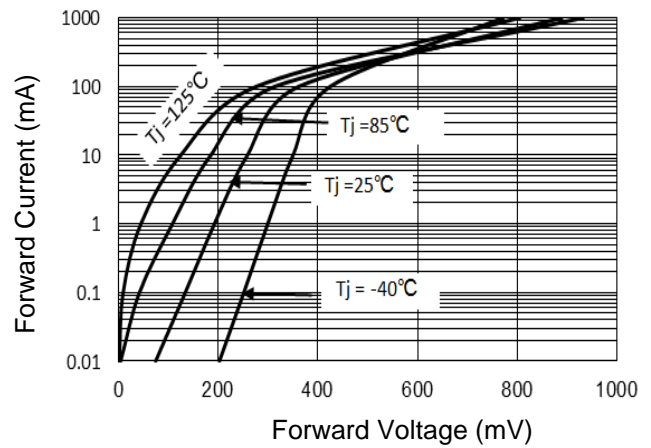


Fig 3. Junction Capacitance

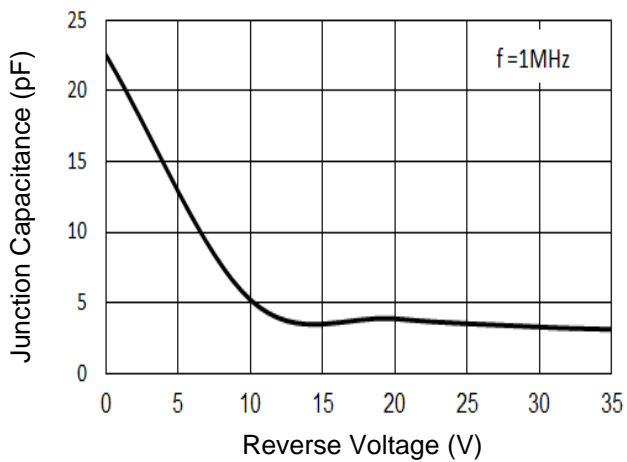
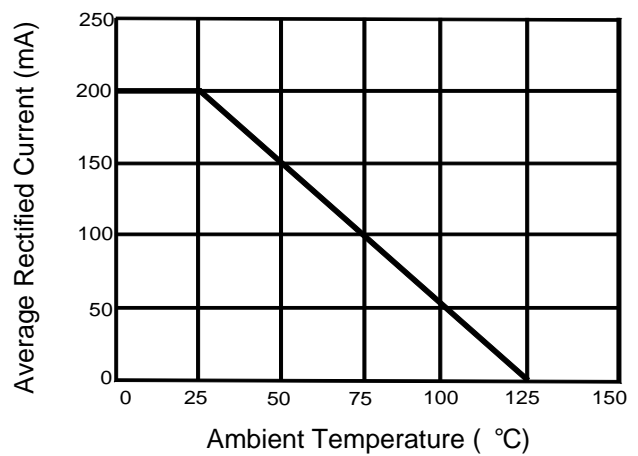


Fig 4. Average Rectified Current Derating Curve



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