



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

SD106WS FAST SWITCHING DIODES

SOD-323

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FEATURES

- Low turn-on voltage
- Fast switching
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge
- Ideal for precaution of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level application.
- Microminiature plastic package

MARKING: S21

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	30	V
Forward Current	I _{FM}	200	mA
Forward surge Current t _p =10ms	I _{FSM}	1	A
Power dissipation T _C =25°C	P _{tot}	250	mW
Thermal resistance junction to ambient air	T _{θJA}	500	°C/W
Junction temperature	T _J	150	°C
Storage temperature	T _{STG}	-65~+150	°C

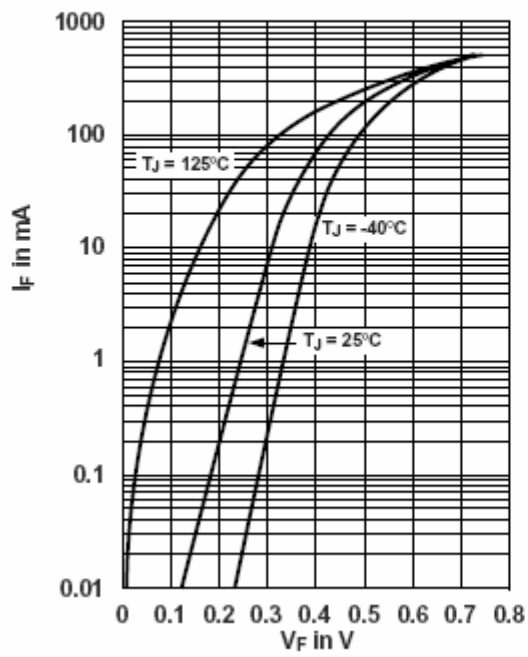
Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Reverse breakdown voltage	V _R	30			V	I _R =100uA
Forward voltage	V _F		260 320 420 490	550	mV	I _F =2mA I _F =15mA I _F =100mA I _F =200mA
Reverse current	I _R			5	μA	V _R =30V
Capacitance between terminals	C _T			15	pF	V _R =10V,f=1MHz

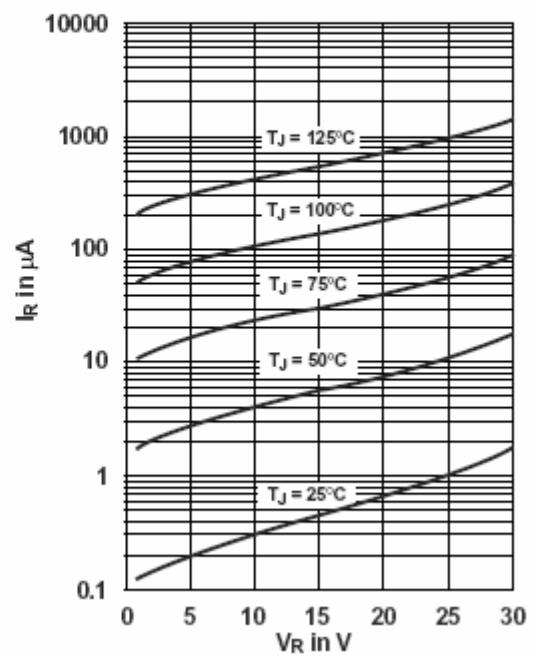
Typical Characteristics

SD106WS

Forward Voltage Forward Current
at Various Temperatures
(Typical Values)



Typical Variation of Reverse
Current at Various Temperatures



Typical Capacitance $^\circ\text{C}$ vs.
Reverse Applied Voltage V_R

