



SD106WS

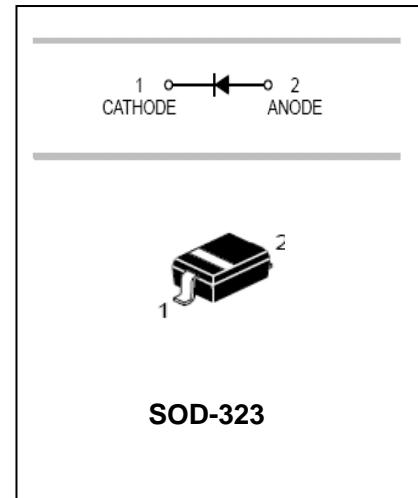
Silicon Epitaxial Planar Diode

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 device ,steering ,biasing , and coupling diodes for fast switching and low logic level application
- Microminiature plastic package



Lead-free



SOD-323

APPLICATIONS

- High speed switching

ORDERING INFORMATION

Type No.	Marking	Package Code
SD106WS	S21	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

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



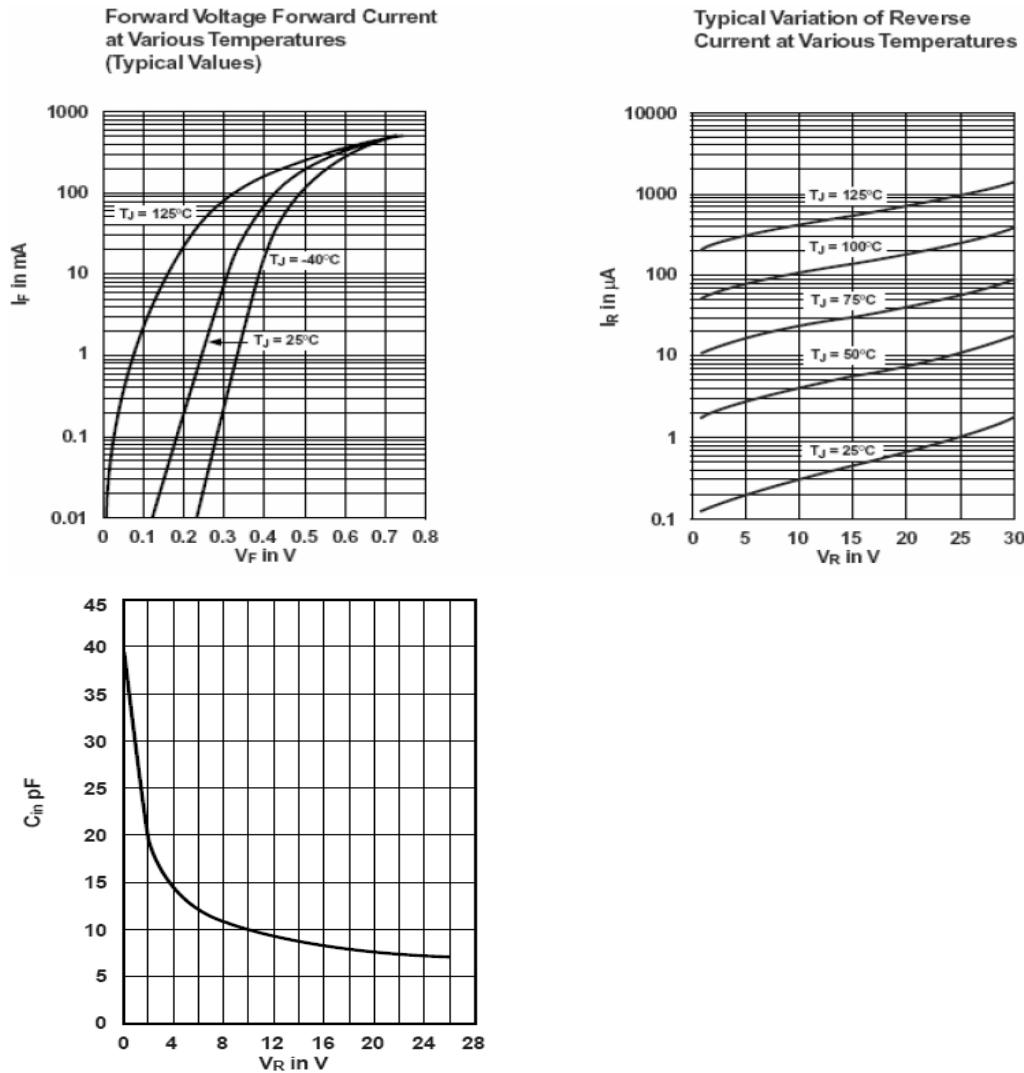
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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions	
Reverse breakdown voltage	V _R	30			V	I _R =100μA	
Forward voltage			260		mV	I _F =2mA	
			320			I _F =15mA	
			420			I _F =100mA	
			490	550		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 @ Ta=25°C unless otherwise specified





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PACKAGE OUTLINE

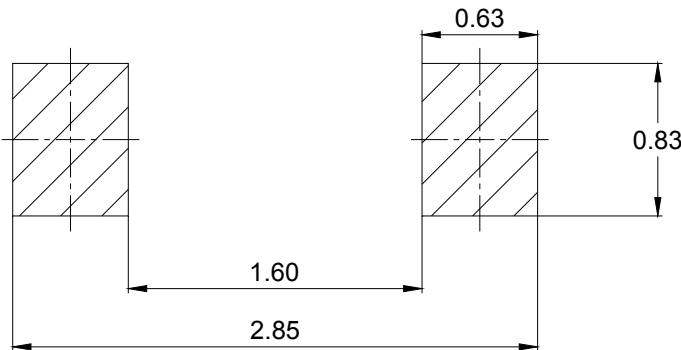
Plastic surface mounted package

SOD-323

SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.9 Max	
D	0.30 Typical	
E	0.22	0.42
H	0.02	0.1
J	0.1 Typical	
K	2.55	2.75

All Dimensions in mm

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
SD106WS	SOD-323	3000/Tape&Reel