

Silicon Epitaxial Planar Diode

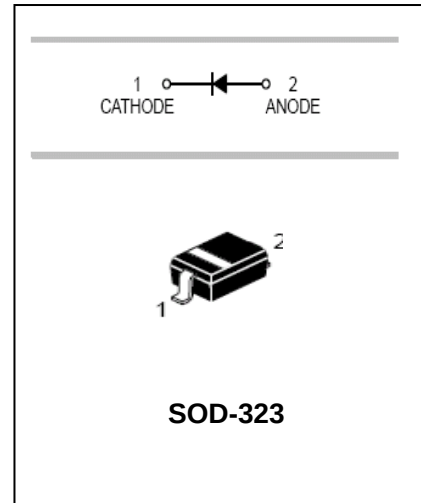
SD106WS

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



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	$T_{\theta JA}$	500	°C/W
Junction temperature	T_j	150	°C
Storage temperature	T_{STG}	-65~+150	°C

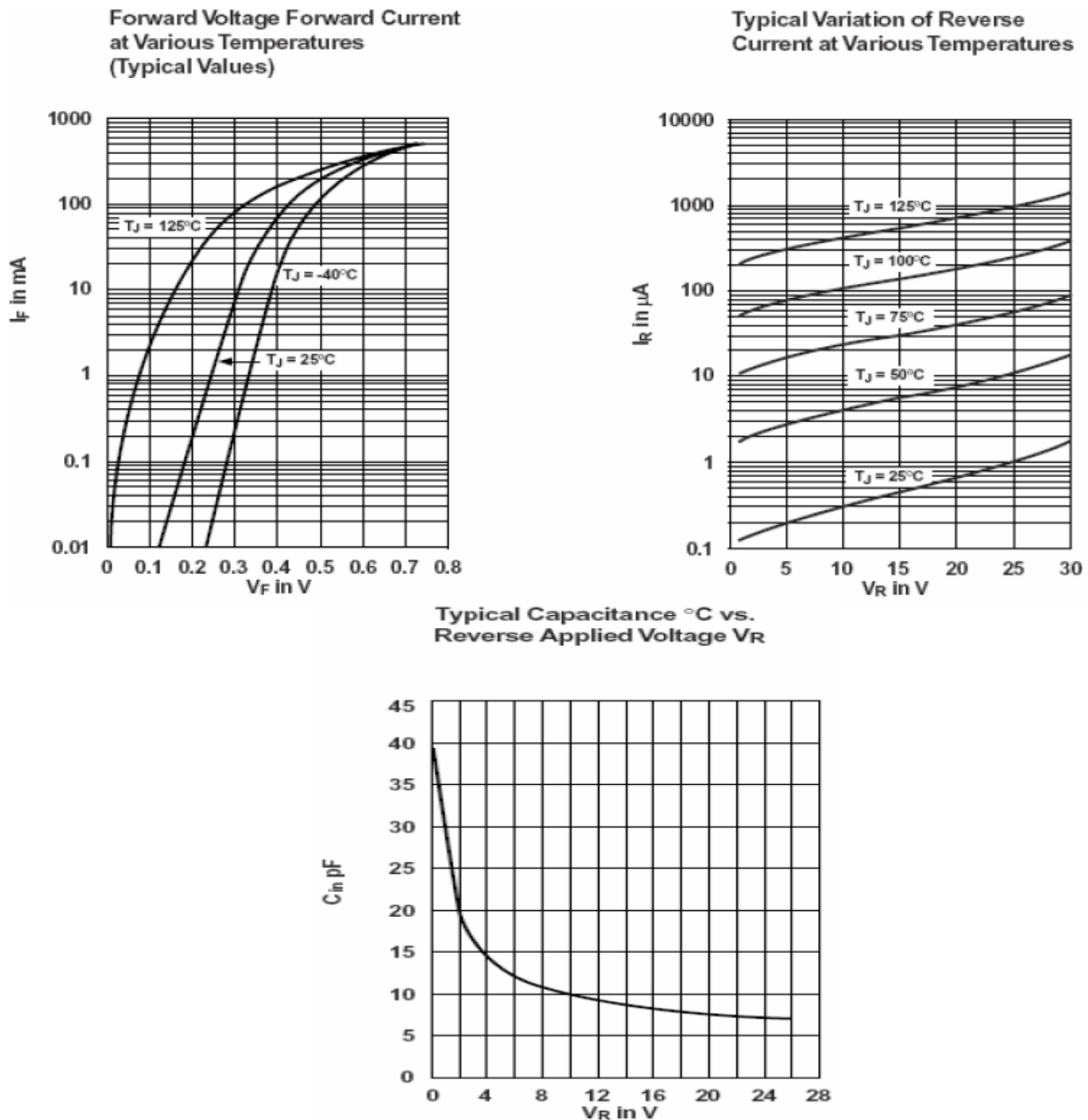
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	V_R	30			V	$I_R=100\mu A$
Forward voltage	V_F		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 @ $T_a=25^\circ C$ unless otherwise specified



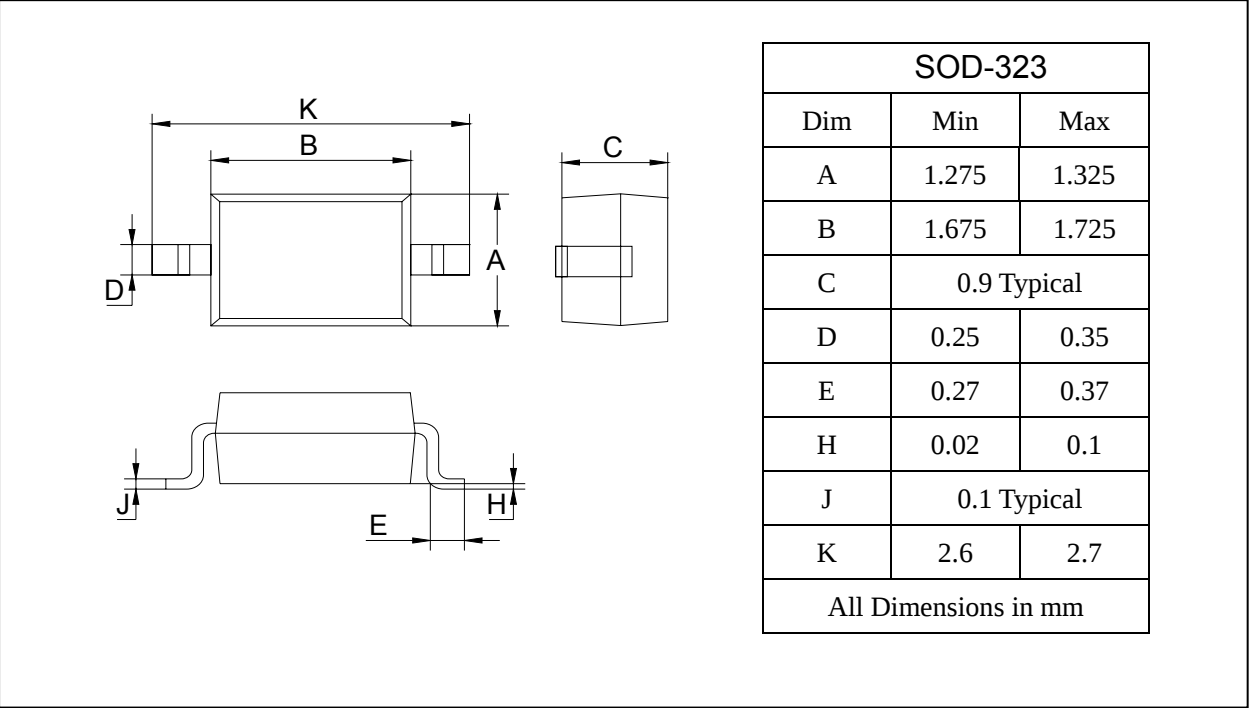
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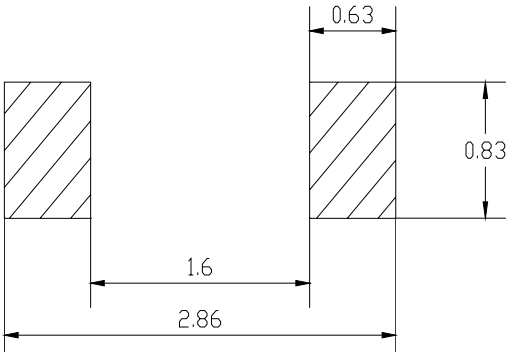
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

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