



Schottky Barrier Diode

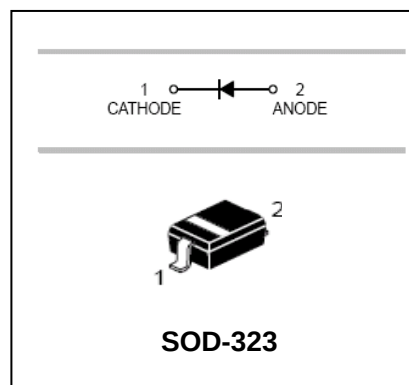
CMDSH-3

FEATURES

- High current
- Extremely fast switching speed
- Ultra-small surface mount package



Lead-free



APPLICATIONS

- Schottky barrier detector and switching diodes

ORDERING INFORMATION

Type No.	Marking	Package Code
CMDSH-3	S1•	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	30	V
Average Forward Current	I_O	100	mA
Forward Surge Current @tp=10ms	I_{FSM}	750	mA
Power Dissipation	P_d	250	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	500	°C/W
Junction temperature	T_j	-65 to +150	°C
Storage temperature range	T_{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu A$	30			V
Forward voltage	V_F	$I_F=2mA$		0.30		V
		$I_F=15mA$		0.36		V
		$I_F=50mA$		0.47	0.55	V
		$I_F=100mA$		0.58	0.80	V
Reverse leakage current	I_R	$V_R=25V$			1.0	μA
Total capacitance	C_T	$V_R=10V, f=1.0MHz$		7.0		pF

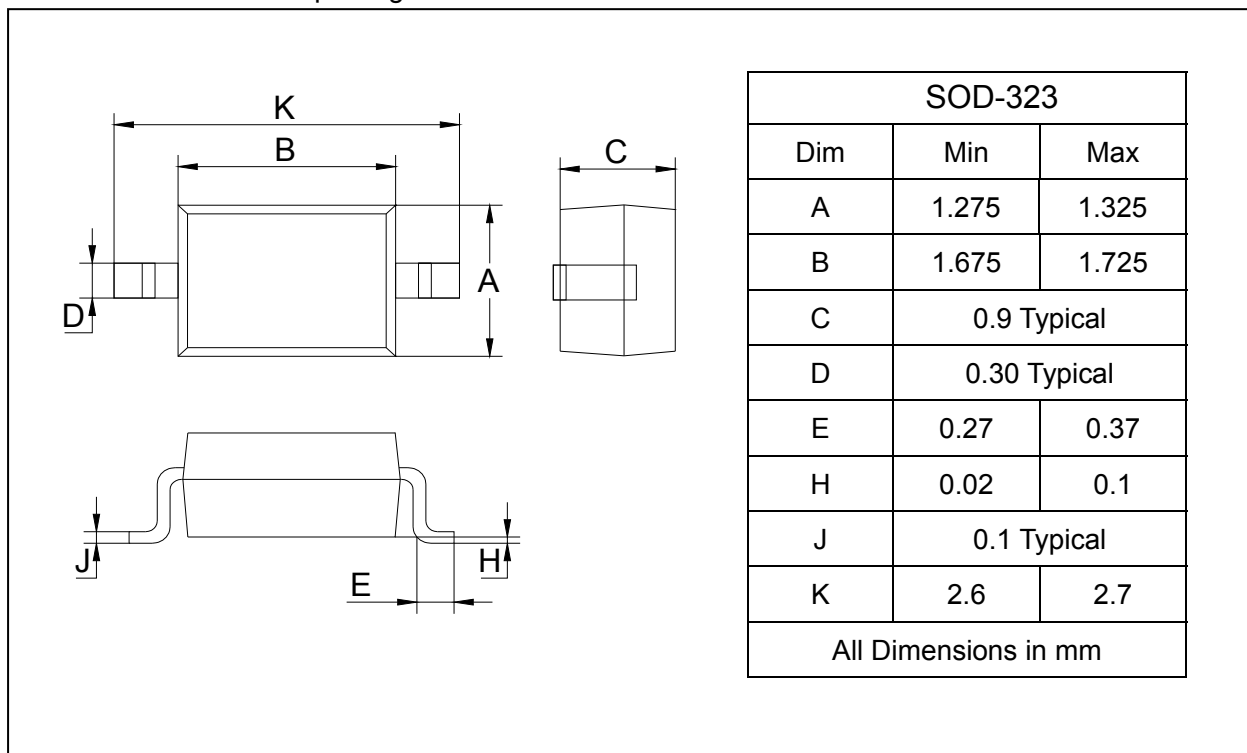
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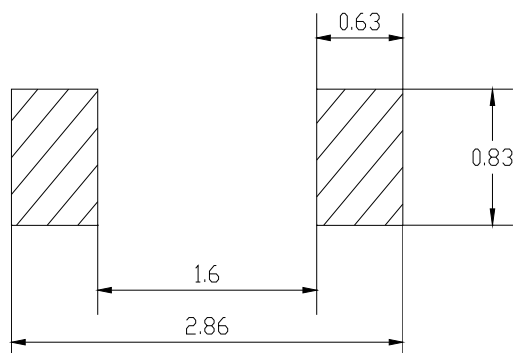
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
CMDSH-3	SOD-323	3000/Tape&Reel