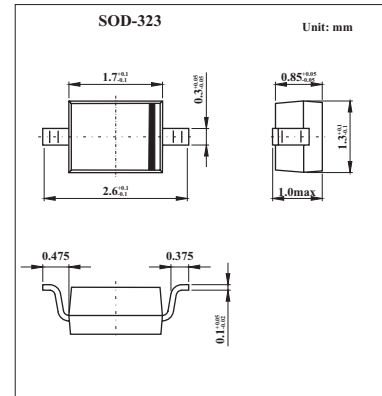


Surface Mount Schottky Barrier Rectifier

K0530WS(B0530WS)

■ Features

- Very Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance



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

Parameter	Symbol	Rating	Unit
Peak repetitive reverse voltage	V_{RRM}	30	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage	$V_{R(RMS)}$	21	V
Average rectified output current	I_O	0.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	2	A
Power dissipation *	P_D	235	mW
Typical Thermal Resistance Junction to Ambient *	$R_{\theta JA}$	426	$^\circ\text{C/W}$
Operating and storage temperature range	T_j, T_{stg}	-40 to +125	$^\circ\text{C}$

* Valid provided that terminals are maintained at ambient temperature.

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 500 \mu\text{A}$	30			V
Forward voltage	V_F	$I_F = 0.1\text{A}$ $I_F = 0.5\text{A}$			0.36 0.45	V
Leakage current	I_R	$V_R = 15\text{V}$ $V_R = 20\text{V}$ $V_R = 30\text{V}$			80 100 500	μA
Junction Capacitance	C_J	$V_R = 0, f = 1.0\text{MHz}$		60		pF

■ Marking

Marking	SE
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