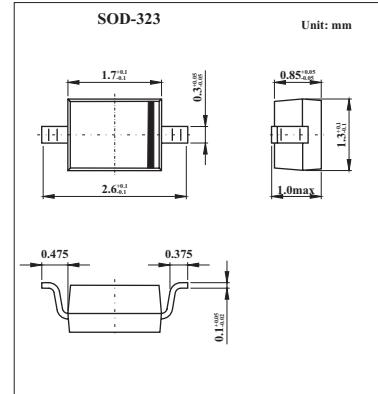


## Surface Mount Schottky Barrier Rectifier

### K0530WS(B0530WS)

#### ■ Features

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



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak repetitive reverse voltage	V <sub>RRM</sub>		
Working peak reverse voltage	V <sub>RWM</sub>	30	V
DC blocking voltage	V <sub>R</sub>		
RMS reverse voltage	V <sub>R(RMS)</sub>	21	V
Average rectified output current	I <sub>O</sub>	0.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	2	A
Power dissipation *	P <sub>D</sub>	235	mW
Typical Thermal Resistance Junction to Ambient *	R <sub>θJA</sub>	426	°C/W
Operating and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-40 to +125	°C

\* Valid provided that terminals are maintained at ambient temperature.

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	I <sub>R</sub> = 500 μA	30			V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 0.1A			0.36	V
		I <sub>F</sub> = 0.5A		0.41	0.45	
Leakage current	I <sub>R</sub>	V <sub>R</sub> = 15V V <sub>R</sub> = 20V V <sub>R</sub> = 30V			80 100 500	μ A
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> = 0, f = 1.0MHz		60		pF

#### ■ Marking

Marking	SE
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