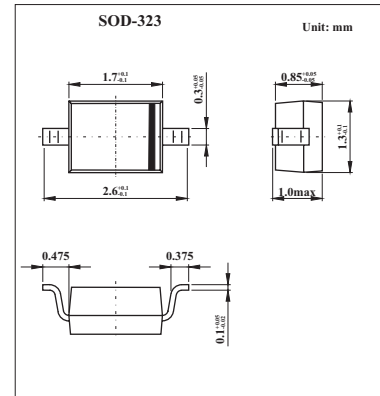


## Surface Mount Schottky Barrier Rectifier

### 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	VRRM	30	V
Working peak reverse voltage	VRWM		
DC blocking voltage	VR		
RMS reverse voltage	VR(RMS)	21	V
Average rectified output current	IO	0.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	2	A
Power dissipation *	PD	235	mW
Typical Thermal Resistance Junction to Ambient *	RθJA	426	°C/W
Operating and storage temperature range	Tj, Tstg	-40 to +125	°C

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

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V(BR)R	IR = 500 μA	30			V
Forward voltage	VF	IF = 0.1A			0.36	V
		IF = 0.5A		0.41	0.45	
Leakage current	IR	VR = 15V			80	μA
		VR = 20V			100	
		VR = 30V			500	
Junction Capacitance	CJ	VR = 0, f = 1.0MHz		60		pF

#### ■ Marking

Marking	SE
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