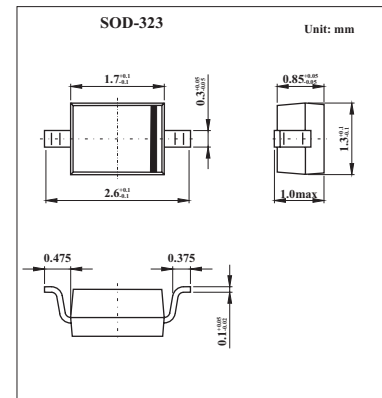


## Surface Mount Schottky Barrier Diode

### KAS40WS(BAS40WS)

#### ■ Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application



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

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	VRRM	40	V
Working Peak Reverse Voltage	VRWM		
DC Blocking Voltage	VR		
Forward Continuous Current	IF	200	mA
Forward Surge Current @ t < 1.0s	IFSM	600	mA
Power Dissipation	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air	RθJA	625	°C/W
Operating and Storage Temperature Range	Tj, TSTG	55 to +125	°C

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V(BR)R	@ IR = 10 μA	40			V
Forward Voltage	VF	@ IF = 1.0mA, t < 300 μs			380	mV
		@ IF = 10mA, t < 300 μs			500	
		@ IF = 40mA, t < 300 μs			1000	
Reverse Leakage Current	IR	@ VR = 30V, t < 300 μs		20	200	nA
Junction Capacitance	Cj	VR = 0V, f = 1.0MHz		4.0	5.0	pF
Reverse Recovery Time	trr	IF = 10mA through IR = 10mA to IR = 1.0mA, RL = 100 Ω			5.0	nS

#### ■ Marking

Marking	S40
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