

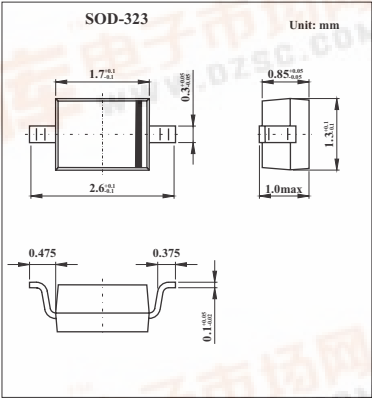
SMD Type

Diodes

Surface Mount Fast Switching Diode
KAV16WS(BAV16WS)

■ Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance



■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak repetitive reverse voltage	VRRM	75	V
Working peak reverse voltage	VRWM		
DC blocking voltage	VR		
RMS reverse voltage	VR(RMS)	53	V
Average rectified output current	IO	150	mA
Forward Continuous Current	IFM	300	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 μ s	IFSM	2.0	A
@ t = 1.0s		1.0	
Power dissipation	PD	200	mW
Typical Thermal Resistance Junction to Ambient	RθJA	325	℃/W
Operating and storage temperature range	Tj, Tstg	-65 to +150	℃

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V(BR)R	IR = 1.0 μ A	75			V
Forward voltage	VFM	IF = 1.0mA IF = 10mA IF = 50mA IF = 150mA			0.745 0.855 1.0 1.25	V
Peak Revrse current	IRM	VR = 75V VR = 75V, TJ=150℃ VR = 25V, TJ=150℃ VR = 20V			1.0 50 30 25	μ A μ A nA nA
Junction Capacitance	CJ	VR = 0, f = 1.0MHz			2.0	pF
Reverse Recovery Time	trr	IF=IR=10mA, Irr=0.1xIR, RL=100 Ω			4.0	ns

■ Marking

Marking	T6 or T4
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