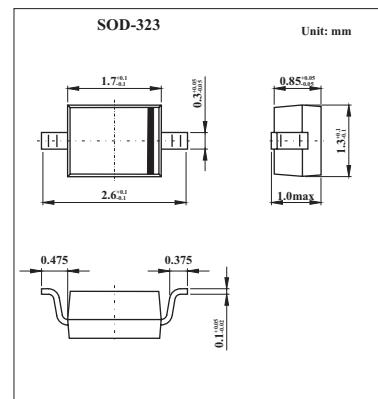


High-Speed Diode

KAS316(BAS316)

■ Features

- Very small plastic SMD package
- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 75 V
- Repetitive peak reverse voltage: max. 85 V
- Repetitive peak forward current: max. 500 mA.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
repetitive peak reverse voltage	V _{RRM}	85	V
continuous reverse voltage	V _R	75	V
continuous forward current	I _F	250	mA
repetitive peak forward current	I _{FRM}	500	mA
non-repetitive peak forward current t = 1 ms	I _{FSM}	4	A
t = 1 μs		1	A
t = 1 s		0.5	A
power dissipation	P _D	400	mW
junction temperature	T _j	150	°C
storage temperature	T _{stg}	-65 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 1 mA			715	mV
		I _F = 10 mA			855	mV
		I _F = 50 mA			1	v
		I _F = 150 mA			1.25	v
Leakage current	I _R	V _R = 25 V			30	nA
		V _R = 75 V			1	μA
		V _R = 25 V; T _j = 150 °C			30	μA
		V _R = 75 V; T _j = 150 °C			50	μA
Junction Capacitance	C _J	V _R = 0, f = 1.0MHz			1.5	pF
reverse recovery time	trr	when switched from I _F = 10 mA to I _R = 10mA; R _L = 100 Ω; measured at I _R = 1 mA			4	ns

■ Marking

Marking	A6
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