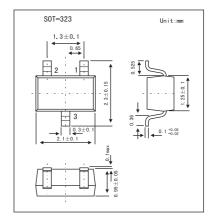
SMD Type

High-speed diode

BAL74W

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



Parameter	Symbol	Conditions	Min	Max	Unit
repetitive peak reverse voltage	Vrrm			85	V
continuous reverse voltage	Vr			75	V
continuous forward current	lf			175	mA
repetitive peak forward current	IFRM			500	mA
non-repetitive peak forward current	IFSM	square wave; T _j = 25 $^{\circ}$ C prior to surge;			A
		t = 1 µ s		4	
		t = 1 ms		1	
		t = 1 s		0.5	
total power dissipation	Ptot	Tamb = 25 ℃		200	°C
storage temperature	Tstg		-65	+150	°C
junction temperature	Tj			150	mW
thermal resistance from junction to tie-point	Rth j-tp			300	K/W
thermal resistance from junction to ambient	Rth j-a			625	K/W

■ Absolute Maximum Ratings Ta = 25°C



BAL74W

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Max	Unit
Forward voltage	Vf	IF = 1 mA	715	m V
		IF = 10 mA	855	
		IF = 50 mA	1	V
		IF = 150 mA	1.25	
Reverse current	Ir	Vr = 25 V		nA
		VR = 75 V		μA
		VR = 25 V, Tj = 150 ℃	0.1	μA
		VR = 75 V, Tj = 150 ℃	100	μA
Diode capacitance	Cd	f = 1.0 MHz, VR = 0	1.5	рF
Reverse recovery time	trr	when switched from I_F = 10 mA to I_R = 10 mA;	4	ns
		RL = 100 Ω ; measured at IR = 1 mA;	+	
Forward recovery voltage	Vfr	when switched from IF = 10 mA; tr = 20 ns;	1.75	V

Marking

Marking JC

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