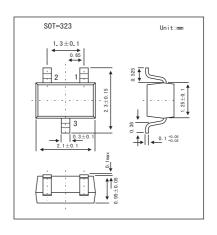
SMD Type Diodes

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.



■ Absolute Maximum Ratings Ta = 25°C

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	Іғѕм	square wave; T _j = 25°C prior to surge;			А
		t = 1 μs		4	
		t = 1 ms		1	
		t = 1 s		0.5	
total power dissipation	Ptot	Tamb = 25 ℃		200	$^{\circ}$
storage temperature	Tstg		-65	+150	$^{\circ}\! \mathbb{C}$
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

SMD Type Diodes

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	lr	V _R = 25 V		nA
		V _R = 75 V		μА
		VR = 25 V, Tj = 150℃	0.1	μА
		VR = 75 V, Tj = 150℃	100	μА
Diode capacitance	Cd	f = 1.0 MHz, VR = 0	1.5	pF
Reverse recovery time	trr	when switched from IF = 10 mA to IR = 10 mA;	4	ns
		RL = 100 Ω ; measured at IR = 1 mA;	4	
Forward recovery voltage	Vfr	when switched from IF = 10 mA; tr = 20 ns;	1.75	V

Marking

Marking	JC
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