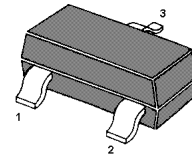
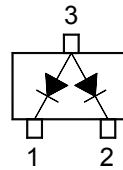


BAW56

HIGH SPEED DOUBLE SWITCHING DIODE

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance



Marking Code: **A1**
SOT-23 Plastic Package

Applications

- Ultra high speed switching application

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Forward Current (DC)	Single Diode Loaded	215	mA
	Double Diode Loaded	125	
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-Repetitive Peak Forward Current	at $t = 1\text{ }\mu\text{s}$	4	A
	at $t = 1\text{ ms}$	1	A
	at $t = 1\text{ s}$	0.5	A
Power Dissipation	P_{tot}	250	mW
Operating Junction Temperature Range	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage	at $I_F = 1\text{ mA}$	715	mV
	at $I_F = 10\text{ mA}$	855	mV
	at $I_F = 50\text{ mA}$	1	V
	at $I_F = 150\text{ mA}$	1.25	V
Reverse Current	at $V_R = 25\text{ V}$	30	nA
	at $V_R = 75\text{ V}$	1	μA
	at $V_R = 25\text{ V}, T_J = 150\text{ }^\circ\text{C}$	30	μA
	at $V_R = 75\text{ V}, T_J = 150\text{ }^\circ\text{C}$	50	μA
Diode Capacitance at $f = 1\text{ MHz}$	C_d	2	pF
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}, R_L = 100\text{ }\Omega$	t_{rr}	4	ns

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