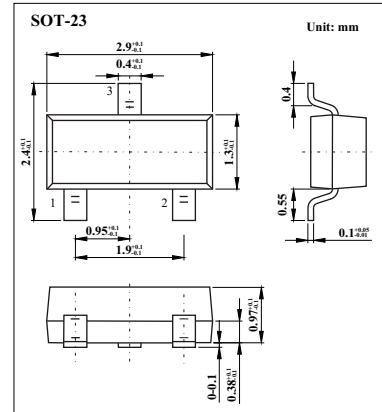
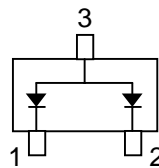


BAR43A

■ Features

- Fast switching
- Very low turn-on voltage



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

Parameter	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	I_F	100	mA
Non-repetitive Peak Forward Surge Current (Pulse width = 1.0 second)	I_{FSM}	750	mA
Power Dissipation (Note 1)	P_D	250	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Operating Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 to +150	$^\circ\text{C}$

Note: 1. P_{tot} is the total power dissipation of both diodes.

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Breakdown Voltage	V_R	$I_R = 100 \mu\text{A}, T_J = 25^\circ\text{C}$	30			V
Forward Voltage (Note 2)	V_F	$I_F = 2\text{mA}, T_J = 25^\circ\text{C}$	0.26		0.33	V
		$I_F = 15\text{mA}, T_J = 25^\circ\text{C}$			0.45	
		$I_F = 100\text{mA}, T_J = 25^\circ\text{C}$			1	
Reverse Current (Note 3)	I_R	$V_R = 25\text{V}, T_J = 25^\circ\text{C}$			500	nA
		$V_R = 25\text{V}, T_J = 100^\circ\text{C}$			100	μA
Junction Capacitance	C_j	$V_R = 1\text{V}, f = 1.0\text{MHz}, T_J = 25^\circ\text{C}$		7		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}, I_{RR} = 1\text{mA}, R_L = 100 \Omega$			5	ns

Notes: 2. Pulse test: $t_p = 380\mu\text{s}, \delta < 2\%$

3. Pulse test: $t_p = 5\text{ms}, \delta < 2\%$

■ Marking

Marking	DB1
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