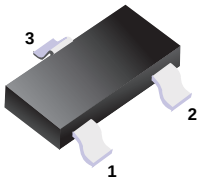


■ Features

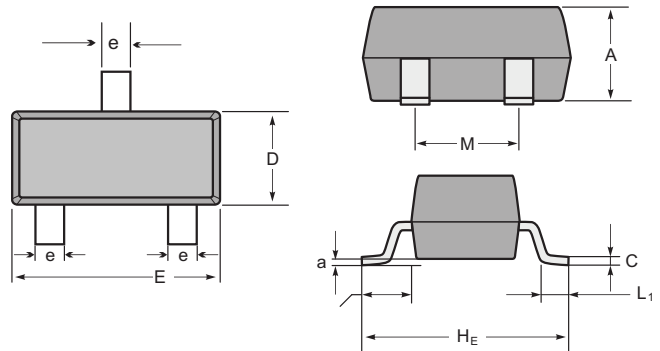
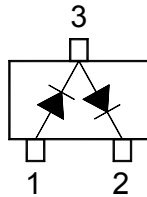
- Very low leakage current
- Medium speed switching times
- Series pair configuration
- Low leakage switching double diode
- For low leakage current applications

■ Marking

Marking	JY
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■ Simplified outline(SOT-23)



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	85	V
Continuous Reverse Voltage	V _R	85	V
Continuous Forward Current	I _F	160	mA
Single Diode		140	
Double Diode			
Repetitive Peak Forward Current	I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	4	A
at t = 1 μs		1	
at t = 1 ms		0.5	
at t = 1 s			
Power Dissipation	P _D	250	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	500	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	- 65 to + 150	°C

BAV199

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$	$V_{(BR)R}$	85	-	-	V
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V_F	- - - -	- - - -	0.9 1 1.1 1.25	V
Reverse Current at $V_R = 75 \text{ V}$ at $V_R = 75 \text{ V}$, $T_J = 150 \text{ }^\circ\text{C}$	I_R I_R	- -	- -	5 80	nA
Total Capacitance at $V_R = 0$, $f = 1 \text{ MHz}$	C_T	-	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}$, $I_{rr} = 0.1 \times I_R$, $R_L = 100 \Omega$	t_{rr}	-	-	3	μs

RATING AND CHARACTERISTIC CURVES (BAV199)

