















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	EVBAV199-S1
Overseas Part Number	BAV199
▶ Equivalent Part Number	BAV199

"S1" means SOT-23

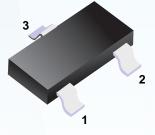




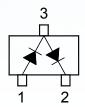
Switching Diodes

EVBAV199-S1

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



■ Simplified outline(SOT-23)



■ Marking

Marking	JY
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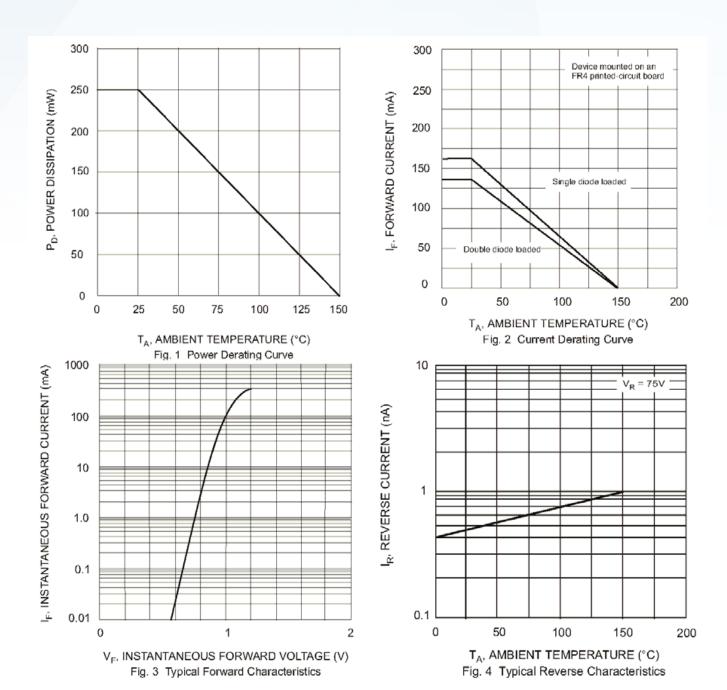
■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage		V_{RRM}	85	V
Continuous Reverse Voltage		V_R	85	V
Continuous Forward Current	Single Diode Double Diode	I _F	160 140	mA
Repetitive Peak Forward Current		I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	at t = 1 µs at t = 1 ms at t = 1 s	I _{FSM}	4 1 0.5	А
Power Dissipation		P_{D}	250	mW
Thermal Resistance Junction to Ambient Air		$R_{ heta JA}$	500	°C/W
Operating and Storage Temperature Range		T_{j},T_{stg}	- 65 to + 150	°C

■ Electrical Characteristics Ta = 25°C

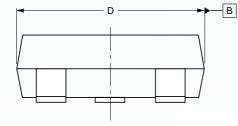
Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at I_R = 100 μA	$V_{(BR)R}$	85	-	_	٧
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V _F	- - -	- - -	0.9 1 1.1 1.25	V
Reverse Current at V_R = 75 V at V_R = 75 V, T_j = 150 °C	I _R	- -	- -	5 80	nA
Total Capacitance at $V_R = 0$, $f = 1$ MHz	Ст	-	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	-	-	3	μs

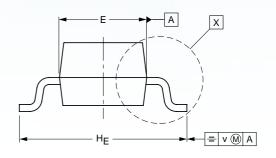


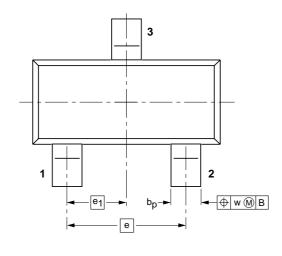


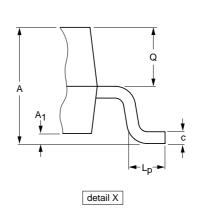


■ SOT-23











DIMENSIONS (mm are the original dimensions)

UNIT	Α	A ₁ max.	bp	С	D	E	е	e ₁	HE	Lp	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1



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