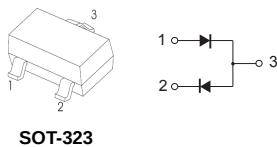


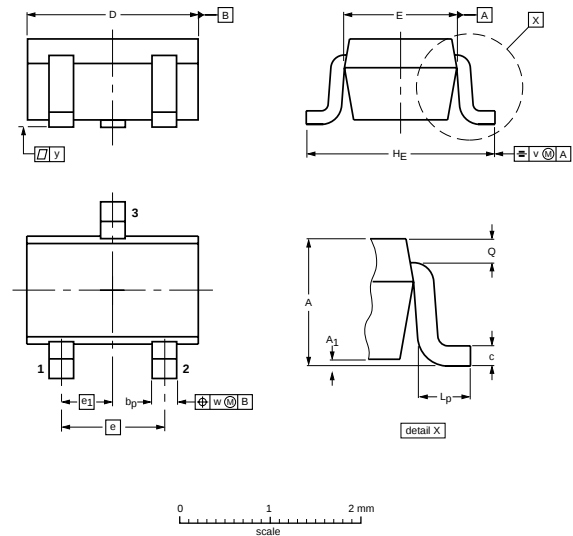
FEATURES

This Switching Diode has The Following Features:
Low Leakage Current Applications

Marking: JY



SOT-323



DIMENSIONS (mm are the original dimensions)

UNIT	A	A1 max	b _P	c	D	E	e	e ₁	H _E	L _P	Q	v	w
mm	1.1 0.8	0.1	0.4 0.3	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.23 0.13	0.2	0.2

Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	70	V
DC Blocking Voltage	V _R	70	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	I _O	215	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	1.0	A
Power Dissipation	P _D	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

BAV199W

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	70		V
Reverse voltage leakage current	I_R	$V_R = 70V$		5	nA
Forward voltage	V_F	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$		900 1000 1100 1250	mV
Diode capacitance	C_D	$V_R = 0, f = 1MHz$		2	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10mA$		3	μs

RATING AND CHARACTERISTIC CURVES (BAV199W)

