BAV99RW

Silicon Epitaxial Planar Switching Diode





SOT-323 Plastic Package Marking Code: **7A**

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Reverse Voltage	V _R	75	V
Continuous Forward Current	I _F	150	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
Total Power Dissipation	P _{tot}	200	mW
Thermal Resistance from Junction to Ambient	R _{0JA}	625	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
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	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25 V$ at $V_R = 75 V$ at $V_R = 25 V$, $T_j = 150 °C$ at $V_R = 75 V$, $T_j = 150 °C$	I _R	30 1 30 50	nA μA μA μA
Diode Capacitance at V_R = 0, f = 1 MHz	C _d	2	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1 \text{ X } I_R$, $R_L = 100 \Omega$	t _{rr}	4	ns

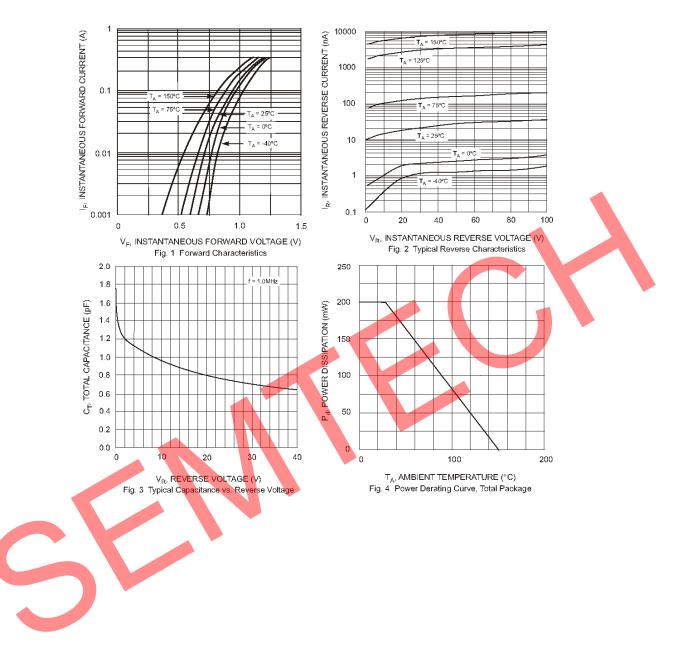
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