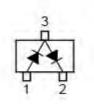


FEATURES

Fast Switching Speed For General Purpose Switching Applications High Conductance





Marking Code: A7 SOT-23 Plastic Package

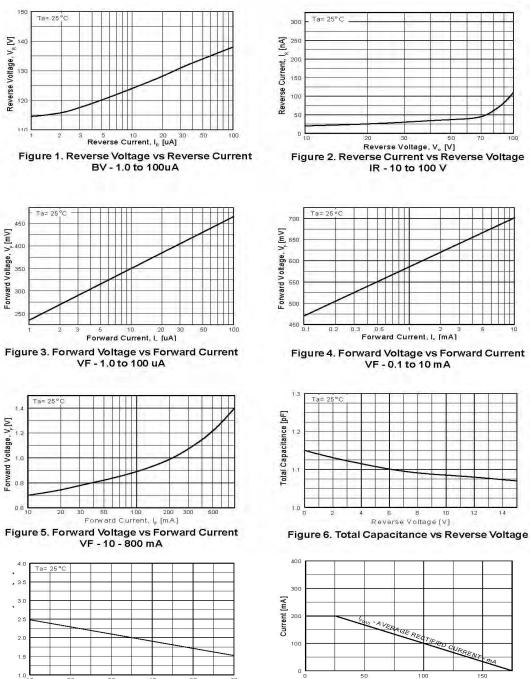
Absolute Maximum Ratings (T_a = 25 °C) Parameter Symbol Value Unit V_{RRM} V Repetitive Peak Reverse Voltage 85 Continuous Reverse Voltage V Vr 75 Continuous Forward Current (Double Diode Loaded) 125 I_{F} mΑ Continuous Forward Current (Single Diode Loaded) I_{F} 215 mΑ **Repetitive Peak Forward Current** 450 mΑ I_{FRM} Non-repetitive Peak Forward Surge Current at t = 1 s0.5 А at t = 1 msI_{FSM} 1 at $t = 1 \mu s$ 4.5 **Power Dissipation** \mathbf{P}_{tot} 350 mW **Junction Temperature** T_i 150 °C Storage Temperature Range - 65 to + 150 °C T_{stg}

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	1.5	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_R = 1$ mA, $R_L = 100$ Ω	t _{rr}	4	ns



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Ambient Temperature, T_A [°C]

Figure 8. Average Rectified Current ($I_{F(AV)}$) versus Ambient Temperature (T_A)

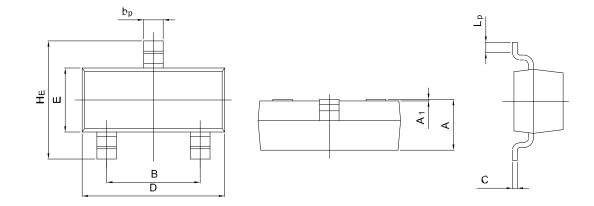
Reverse Current [mA] Figure 7. Reverse Recovery Time

vs Reverse Current TRR - IR 10 mA vs 60 mA



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SOT-23



UNIT	А	В	bp	С	D	E	ΗE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20