

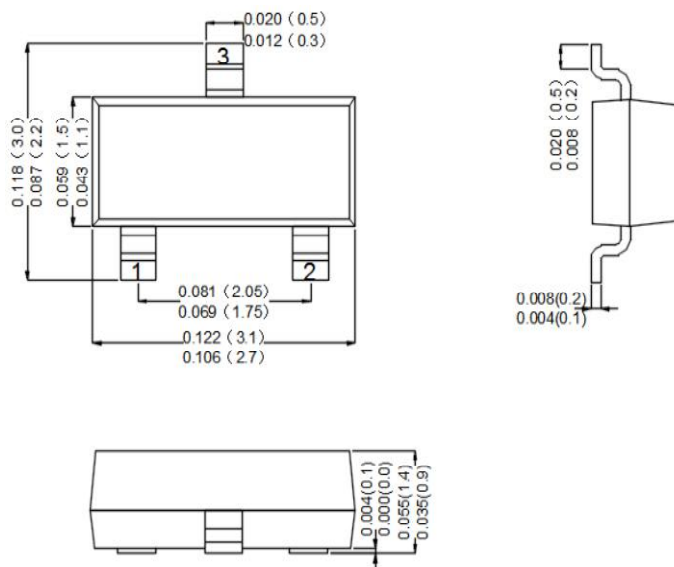
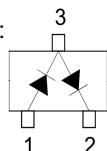


Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance
- Ultra high speed switching application

Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026
- Mounting Position : Any.
- Marking: A7
- Equivalent Circuit:



Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	Value	Units
Maximum Peak Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Average Rectified Output Current	$I_{F(AV)}$	100	mA
Maximum Peak Forward Current	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current (10 ms)	I_{FSM}	2	A
Power Dissipation	P_D	350	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	Min	Max	Units
Forward Voltage at $I_F = 100\text{mA}$	V_F		1.2	V
Maximum Leakage Current at $V_R = 80\text{V}$	I_R		0.5	μA
Total Capacitance at $V_R = 0\text{V}$, $f = 1\text{MHz}$	C_T		3	pF
Reverse Recovery Time at $I_F = 10\text{mA}$	t_{rr}		4	ns



Rating And Characteristic Curves

Fig. 1 I_F -- V_F

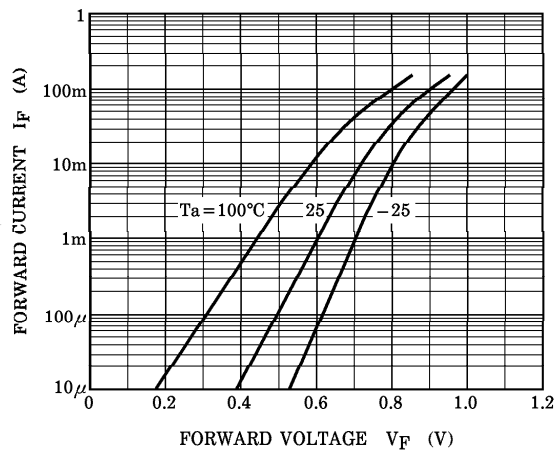


Fig. 2 I_R -- V_R

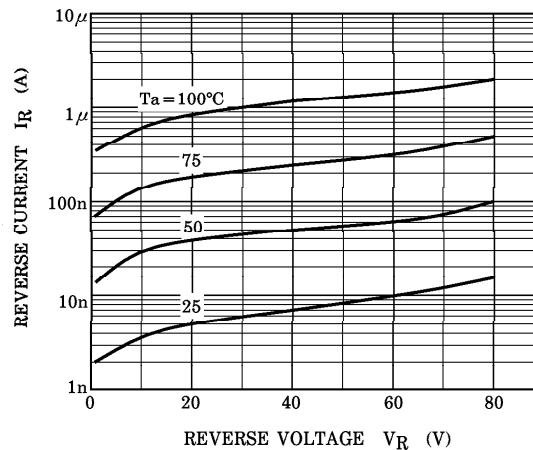


Fig. 3 C_T -- V_R

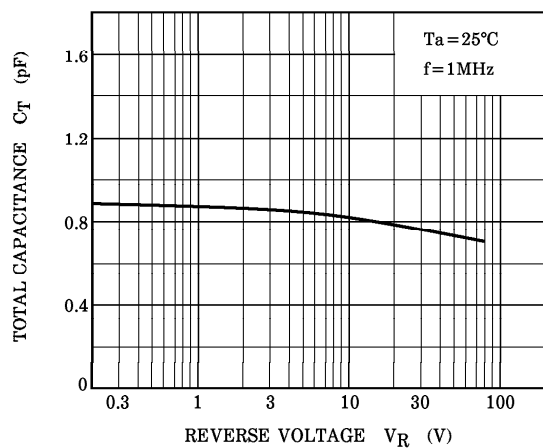
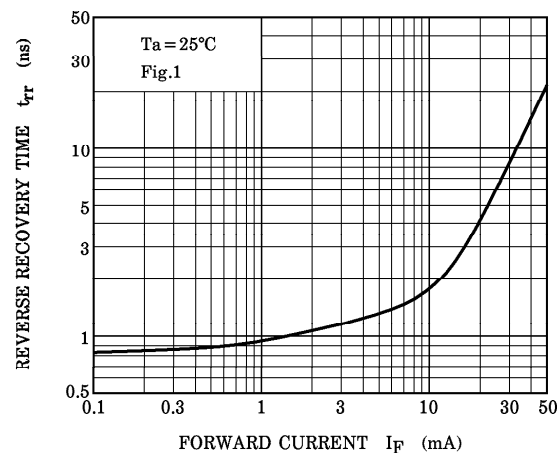


Fig. 4 t_{rr} -- I_F





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