



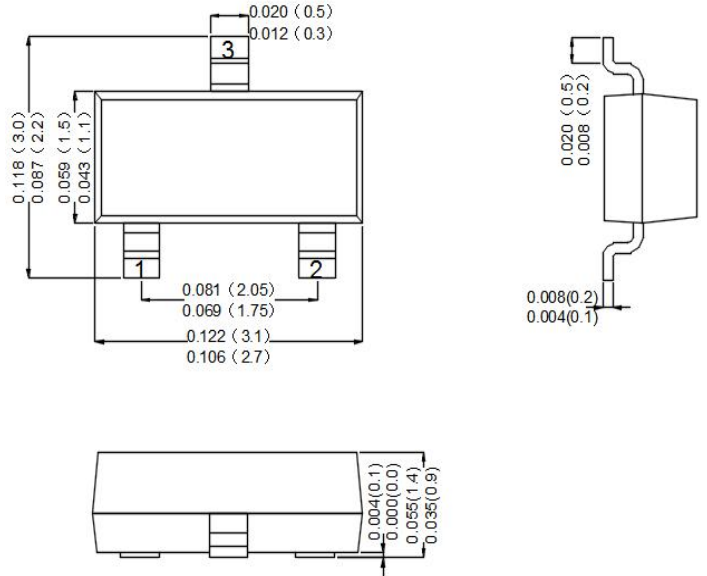
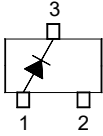
Features

- Ultra Low V_F

SOT-23

Mechanical Data

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



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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	25	V
DC Reverse Voltage	V_R	20	V
DC Forward Current	I_F	1	A
Peak Forward Surge Current ¹⁾	I_{FSM}	3	A
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_s	-40 to +125	°C

¹⁾ 60Hz for 1 s

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

Parameter	Symbol	Min	Max	Unit
Forward Voltage at $I_F = 1$ A	V_F	-	0.45	V
Reverse Current at $V_R = 20$ V	I_R	-	200	μ A

Note: ESD sensitive product handling required.



Rating And Characteristic Curves

Fig.1 Forward characteristics

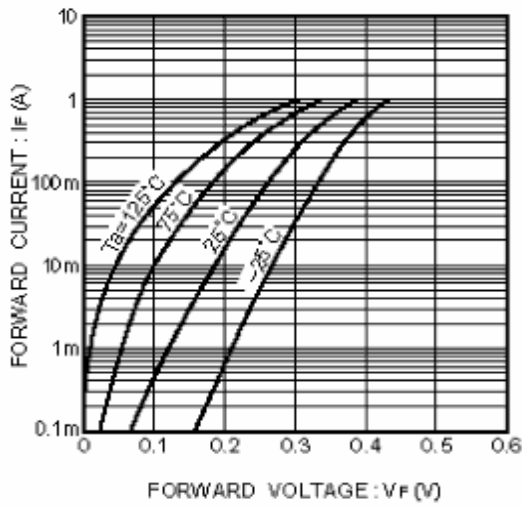


Fig.2 Reverse characteristics

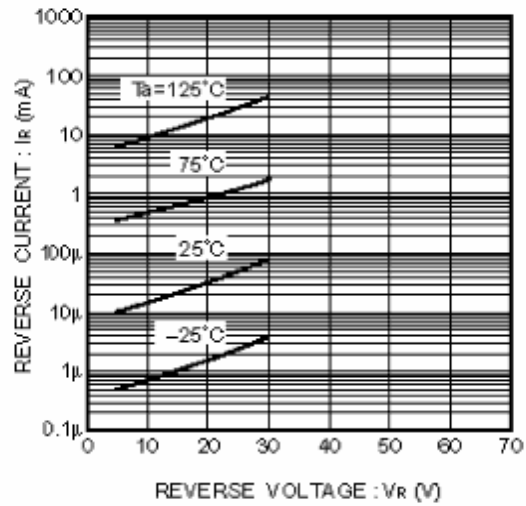


Fig.3 Capacitance between terminals characteristics

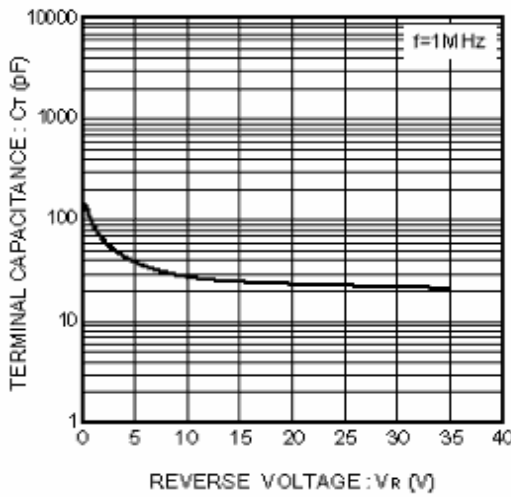


Fig.4 Forward power dissipation characteristics

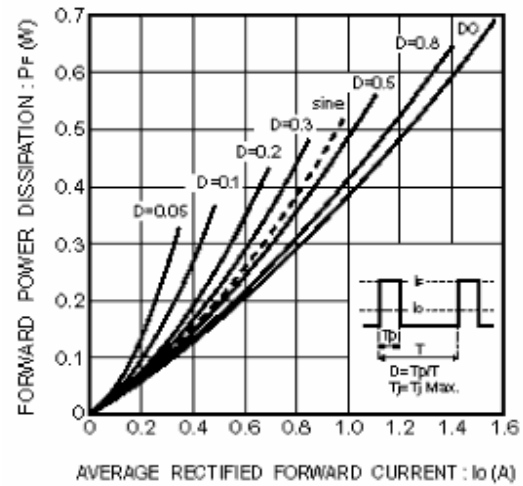
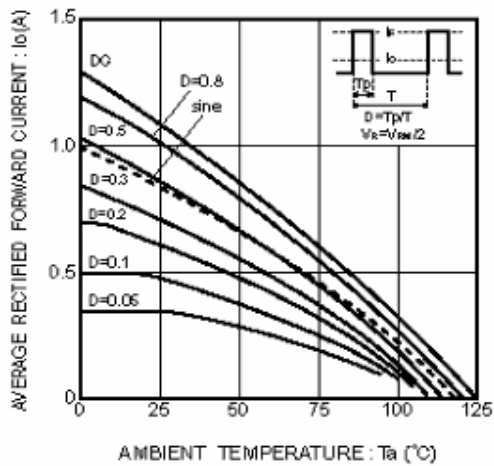


Fig.5 Derating curve (IO - Ta)





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