

Features

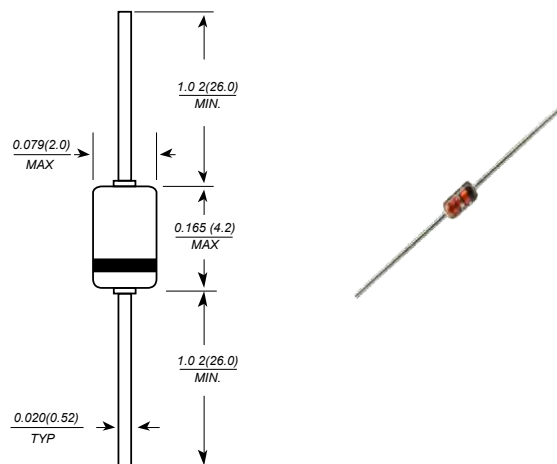
- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 30 V
- Repetitive peak reverse voltage: max. 35 V

Mechanical Data

- Case: DO-35, glass case
- Polarity: Color band denotes cathode
- Weight: 0.005 ounces, 0.14 grams



DO-35(GLASS)



Dimensions in millimeters

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

Characteristic	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	35	V
Maximum Continuous Reverse Voltage	V_{RM}	30	V
Maximum Average Forward Current	I_F	100	mA
Maximum Peak Forward Current	I_{FM}	300	mA
Maximum Power Dissipation	P_D	300	mW
Maximum Non-repetitive Peak Forward Current	I_{FSM}	1000	mA
Maximum Junction Temperature	T_J	175	°C
Storage Temperature Range	T_S	-65 to + 175	°C

Electrical Characteristics (Ta = 25°C unless otherwise noted)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Current	I_R	$V_R = 35 \text{ V}$	-	-	0.5	μA
Forward Voltage	V_F	$I_F = 100 \text{ mA}$	-	-	1.2	V
Capacitance between terminals	C_T	$f = 1\text{MHz} ; V_R = 0.5$	-	-	3.0	pF
Reverse Recovery Time	T_{rr}	$I_F = 10 \text{ mA} , V_R = 6 \text{ V}$ $R_L = 50 \Omega$	-	-	4.0	ns

RATING AND CHARACTERISTIC CURVES (1SS176)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

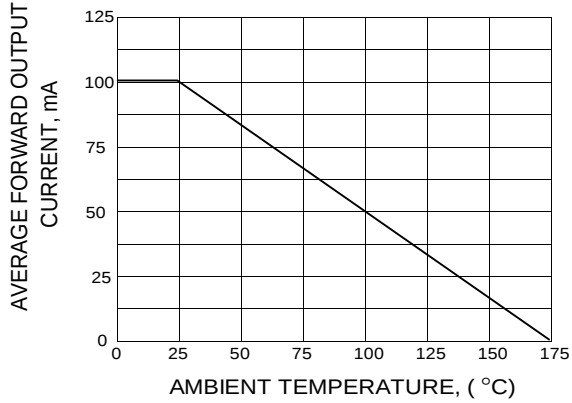


FIG.2 - POWER DERATING CURVE

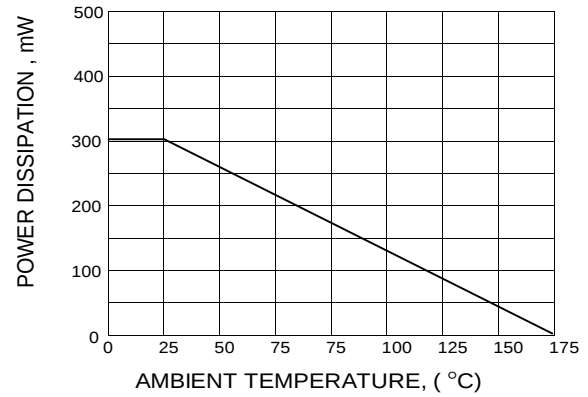


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

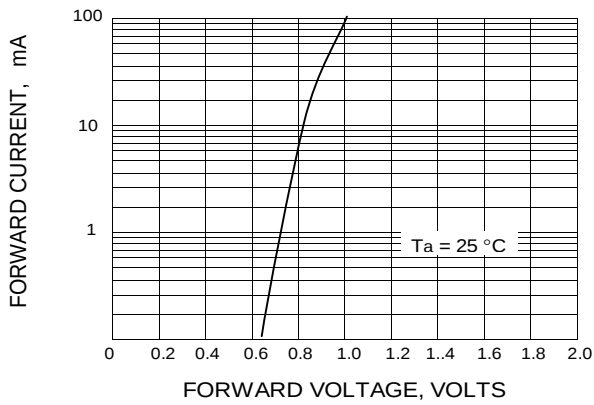


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

