

**General Description:**

The high breakdown voltage, fast switching speed and high forward conductance of this diode packaged in a DO-35 miniature Glass Axial leaded package makes it desirable also as a general purpose diode.

## High Conductance Fast Diode

**Features:**

- 500 milliwatt Power Dissipation package.
- Fast Switching Speed,
- Typical capacitance less than 1.0 picofarad.

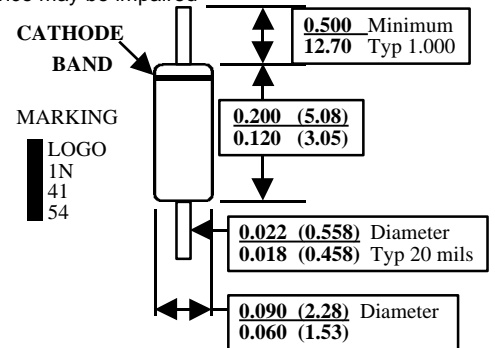
**Ordering:**

- 13 inch reel, 50 mm (T50R) & 26 mm (T26R) Tape; 10,000 units per reel.

**Absolute Maximum Ratings\*** TA = 25°C unless otherwise noted

Sym	Parameter	Value	Units
T <sub>stg</sub>	Storage Temperature	-65 to +200	°C
T <sub>J</sub>	Operating Junction Temperature	175	°C
P <sub>D</sub>	Total Power Dissipation at T <sub>A</sub> = 25°C	500	mW
	Linear Derating Factor from T <sub>A</sub> = 25°C	3.33	mW/°C
R <sub>OJA</sub>	Thermal Resistance Junction-to-Ambient	300	°C/W
W <sub>iv</sub>	Working Inverse Voltage	35	V
I <sub>O</sub>	Average Rectified Current	100	mA
I <sub>F</sub>	DC Forward Current (I <sub>F</sub> )	300	mA
i <sub>f</sub>	Recurrent Peak Forward Current (I <sub>F</sub> )	400	mA
i <sub>F(surge)</sub>	Peak Forward Surge Current (I <sub>FSM</sub> ) Pulse Width = 1.0 second	1.0	Amp
	Pulse Width = 1.0 microsecond	4.0	Amp

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired



**Electrical Characteristics** TA = 25°C unless otherwise noted

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
B <sub>V</sub>	Breakdown Voltage	35		V	I <sub>R</sub> = 5.0 uA
I <sub>R</sub>	Reverse Leakage		100 100	nA uA	V <sub>R</sub> = 25 V V <sub>R</sub> = 25 V, T <sub>A</sub> = 150°C
V <sub>F</sub>	Forward Voltage		1.0	V	I <sub>F</sub> = 30 mA
C <sub>T</sub>	Capacitance		4.0	pF	V <sub>R</sub> = 0.0 V, f = 1.0 MHz
T <sub>RR</sub>	Reverse Recovery Time		4.0	ns	I <sub>F</sub> = 10 mA V <sub>R</sub> = 6.0 V I <sub>RR</sub> = 1.0 mA, R <sub>L</sub> = 100 ohms

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Datasheet Identification	Product Status	Definition
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