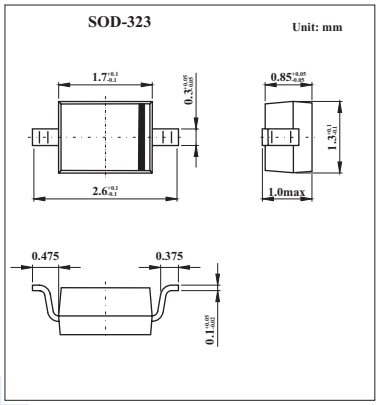
General Purpose Rectifier Applications

1N4001WS



■ Features

- Average forward current: I_F(AV)=150mA
- Repetitive peak reverse voltage :V_{RRM}=50V

■ Absolute Maximum Ratings Ta = 25℃

Characteristic	Symbol	Rating	UNIT
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	V_{RRM} V_{RWM} V_R	50	V
RMS reverse voltage	$V_{R(RMS)}$	35	V
Maximum average forward rectified current @ terminal temp @ T_T = 75℃	I_O	150	mA
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300	mA
Maximum forward voltage @ I_F =100mA	V_F	1.1	V
Maximum dc reverse current @ T_A = 25℃ Rated DC blocking voltage @ T_A=100℃	I_R	5.0 50	μA
Typical thermal resistance, junction to ambient air	$R_{\theta JA}$	50	K/W
Typical junction capacitance	C_j	2	pF
Operating and storage temperature range	T_j,T_{stg}	-55 to +150	℃

* Measured at 1.0MHz and applied reverse oltage of 4.0 volts.

■ Marking

Marking	T4

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■ Typical Characteristics

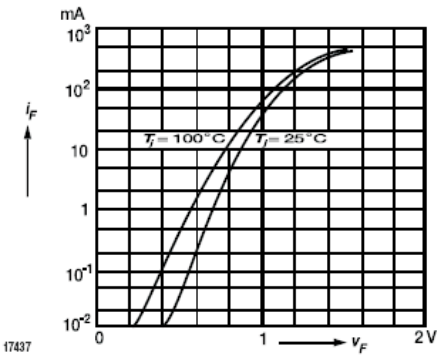

Figure 1. Forward characteristics

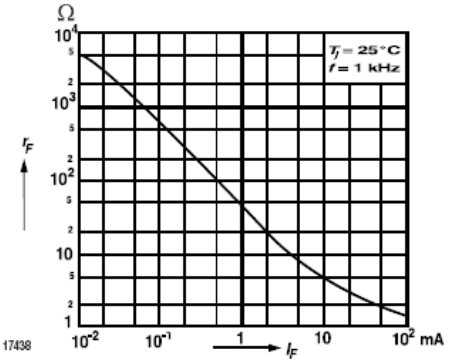

Figure 2. Dynamic Forward Resistance vs. Forward Current

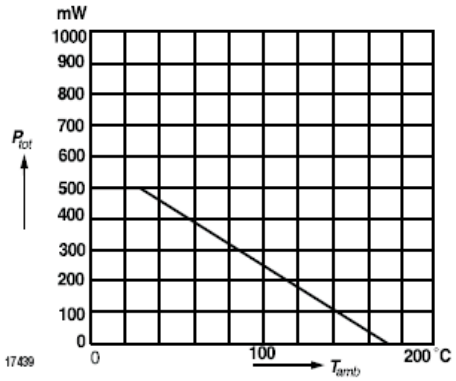

Figure 3. Admissible Power Dissipation vs. Ambient Temperature

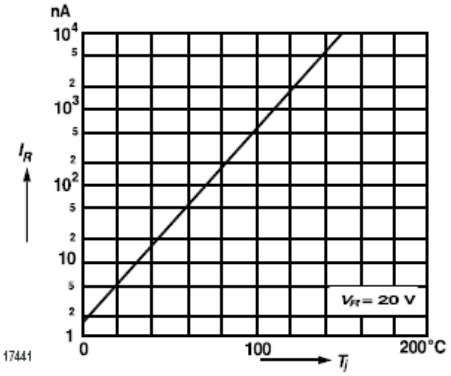

Figure 5. Leakage Current vs. Junction Temperature

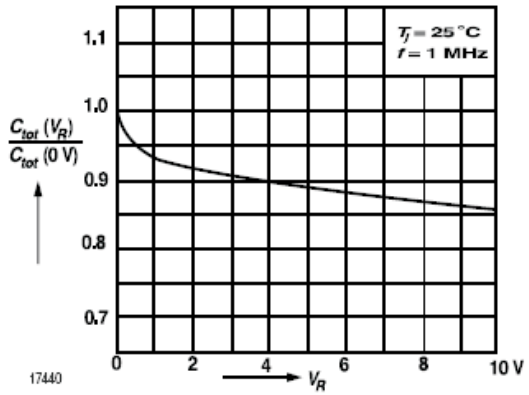

Figure 4. Reverse Capacitance vs. Reverse Voltage