

SMD Type

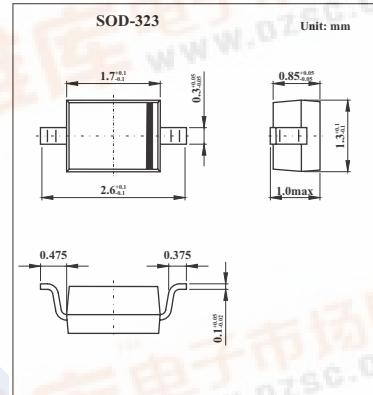
Diodes

General Purpose Rectifier Applications

1N4001WS

■ Features

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

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Characteristic	Symbol	Rating	UNIT
Peak repetitive reverse voltage	V_{RRM}		
Working peak reverse voltage	V_{RWM}	50	V
DC blocking voltage	V_R		
RMS reverse voltage	$V_{R(RMS)}$	35	V
Maximum average forward rectified current @ terminal temp @ $T_T = 75^\circ\text{C}$	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 @ $I_F = 100\text{mA}$	V_F	1.1	V
Maximum dc reverse current @ $T_A = 25^\circ\text{C}$	I_R	5.0	μA
Rated DC blocking voltage @ $T_A=100^\circ\text{C}$		50	
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	$^\circ\text{C}$

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

■ Marking

Marking	T4
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■ Typical Characteristics

