WILLAS

RoHS COMPLIANT

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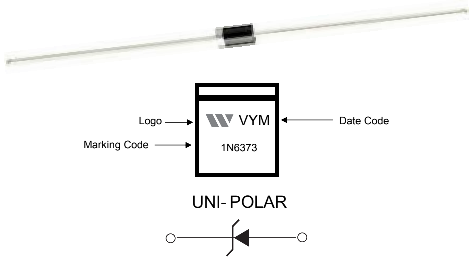
PRIMARY CHARACTERISTICS	
P_{PP}	1500W
V_{RWM}	5V
I_{PP}	163.04A
V_C	9.2V
$T_{J,Max}$	150℃

DO-201AE PACKAGE



V:Product Line Code

Y:Last digital of year, Ex : 4-2014,5-2015…

M:Month Code, Ex : 1-1,2-2,---10-O,11-N,12-D

FEATURES

- Glass passivated chip
- 1500 W peak pulse power capability with a10/1000 μs waveform, repetitive rate (dutycycle):0.01 %
- Low leakage
- Uni and Bidirectional unit
- Excellent clamping capability
- Very fast response time
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case：Molded plastic,DO-201AE
- Polarity：Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

Maximum Ratings(T_A=25℃ unless otherwise noted)

Parameter	Symbol	Value	UNIT
Peak power dissipation with a 10/1000μs waveform$^{(1)}$	P_{PP}	1500	W
Peak pulse current wih a 10/1000μs waveform$^{(1)}$	I_{PP}	163.04	A
Power dissipation on infinite heatsink at T_L = 75 °C	P_D	6.5	W
Peak forward surge current, 8.3 ms single half sine-wave unidirectional only$^{(2)}$	I_{FSM}	200	A
Maximum instantaneous forward voltage at 100 A for unidirectional only$^{(3)}$	V_F	3.5	V
Operating junction and storage temperature range	T_J, T_{STG}	–55 to +150	°C

Note:

(1)Non-repetitive current pulse per Fig.5 and derated above T_A= 25℃ per Fig.1

(2) Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

Part No. UNI-POLAR	Marking Code UNI-POLAR	Reverse Stand-Off Voltage V_{RWM} (V)	Breakdown Voltage V_{BR} (V) Min @ I_T	Breakdown Voltage V_{BR} (V) Max @ I_T	Test Current I_T (mA)	Max Clamping Voltage V_C (V) @ I_{PP}	Peak Pulse Current I_{PP} (A)	Reverse Leakage I_R (μA) @ V_{RWM}
1N6373	1N6373	5.0	6.40	7.00	10	9.2	163.04	300

Ratings and Characteristics Curves(T_A=25°C unless otherwise noted)

Fig.1-Pulse Derating Curve

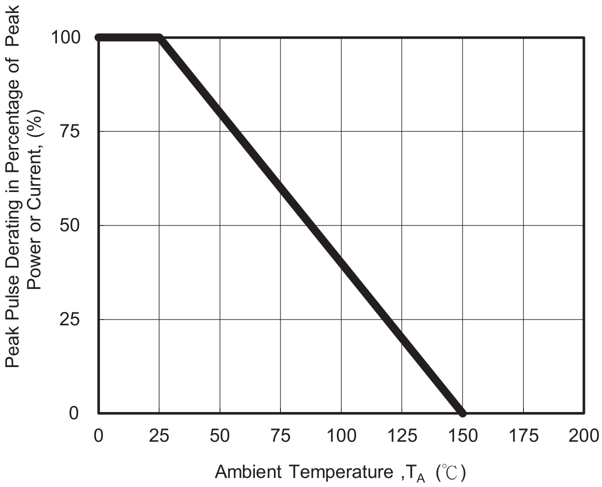


Fig.2-Maximum Non-Repetitive Surge Current

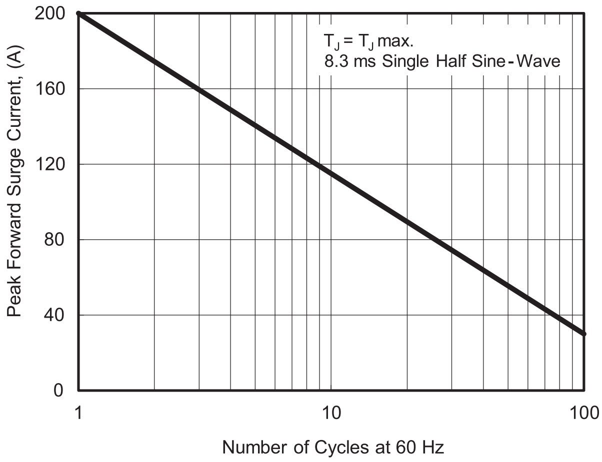


Fig.3-Steady State Power Derating Curve

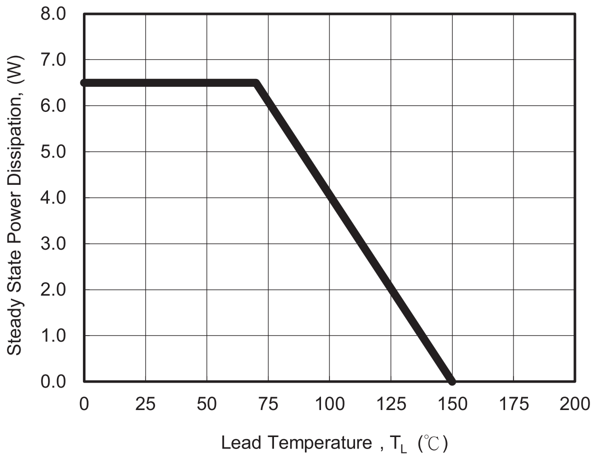


Fig.4-Peak Pulse Power Rating Curve

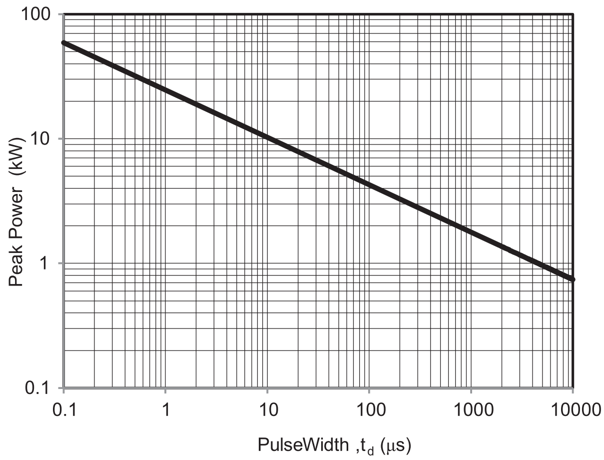


Fig.5-Pulse Waveform

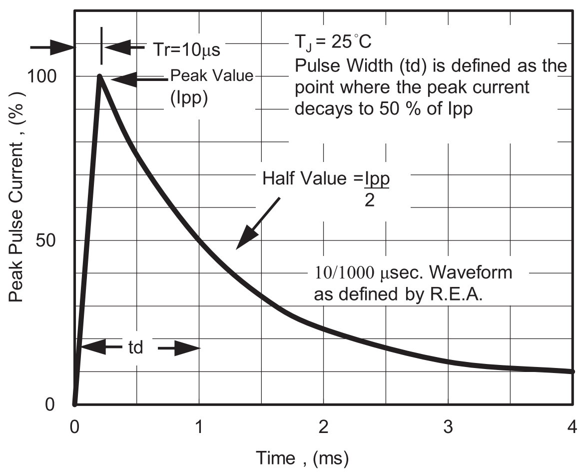
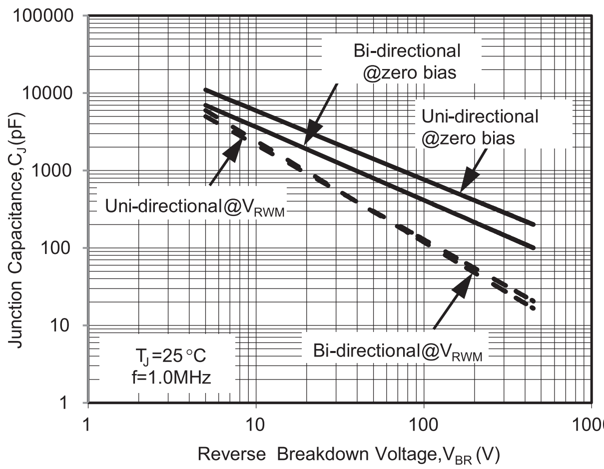
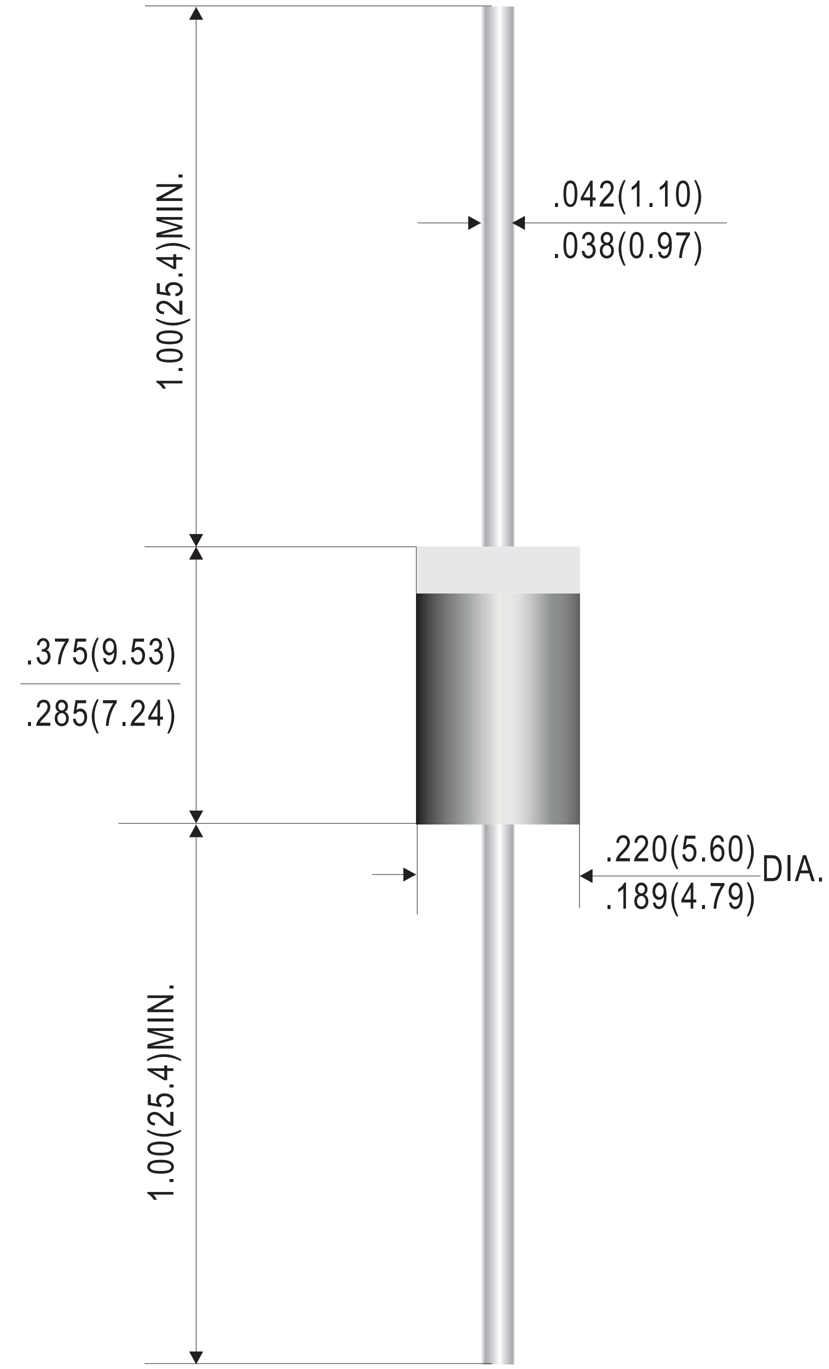


Fig.6-Typical Junction Capacitance



Outline Drawing

1.5KE(DO-201AE)



Dimensions in inches and (millimeters)

Rev.C

Ordering Information:

Device PN	Packing
1N6373 -F[(1)]G[(2)]-WS	Tape & Ammo Packing:1.2Kpcs/box

Note 1. Packing code, F : Ammo Packing

2. RoHS product for packing code suffix ”G”, Halogen free product for packing code suffix "H" .