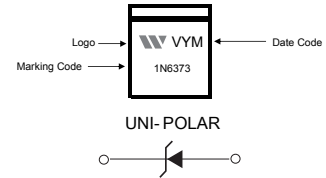


PRIMARY CHARACTERISTICS	
P_{PP}	1500W
V_{RWM}	5V
I_{PP}	163.04A
V_C	9.2V
$T_{J,Max}$	150°C

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 μ s waveform, repetitive rate (duty cycle):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($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	UNIT
Peak power dissipation with a 10/1000 μ s waveform ⁽¹⁾	P_{PP}	1500	W
Peak pulse current with a 10/1000 μ s waveform ⁽¹⁾	I_{PP}	163.04	A
Power dissipation on infinite heatsink at $T_L = 75^\circ\text{C}$	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	$^\circ\text{C}$

Note:

(1)Non-repetitive current pulse per Fig.5 and derated above $T_A= 25^\circ\text{C}$ 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.	Marking Code	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 (μ A) @ V_{RWM}
UNI-POLAR	UNI-POLAR							
1N6373	1N6373	5.0	6.40	7.00	10	9.2	163.04	300

Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1-Pulse Derating Curve

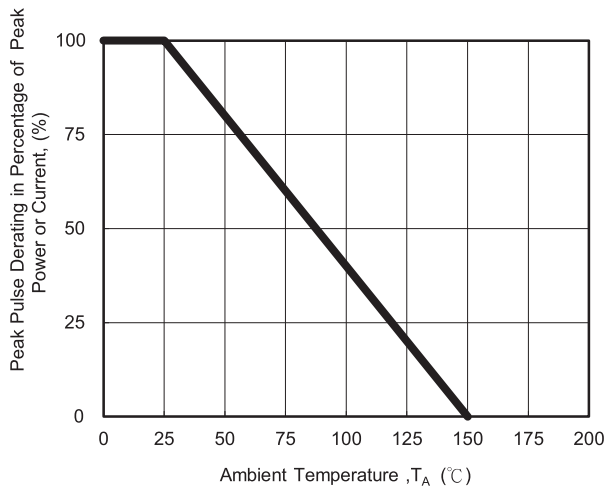


Fig.2-Maximum Non-Repetitive Surge Current

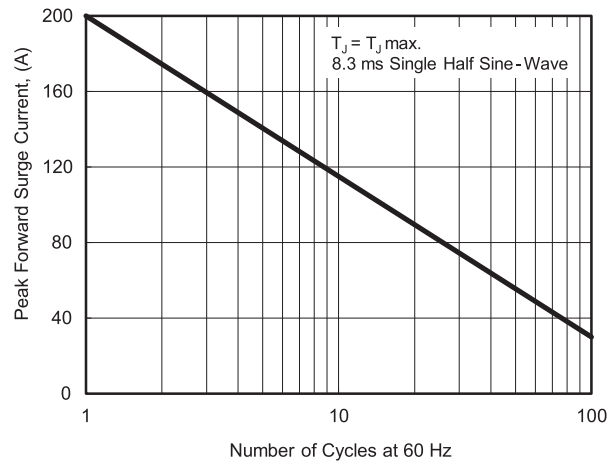


Fig.3-Steady State Power Derating Curve

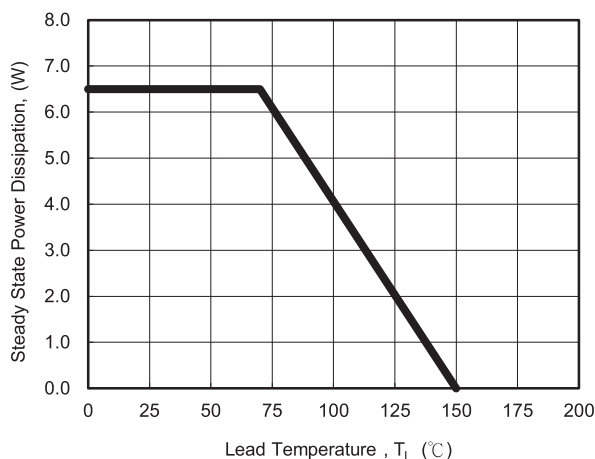


Fig.4-Peak Power Rating Curve

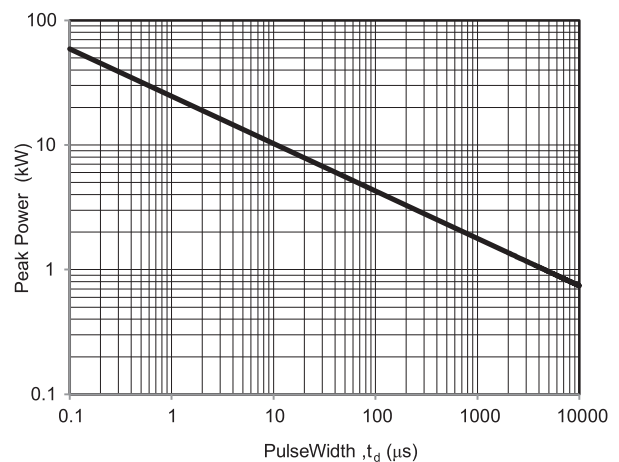


Fig.5-Pulse Waveform

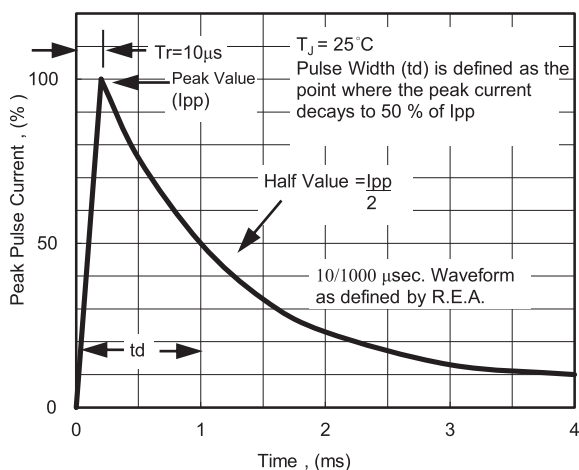
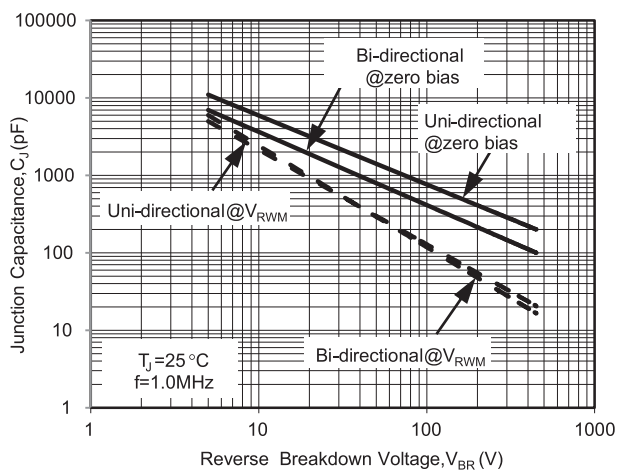
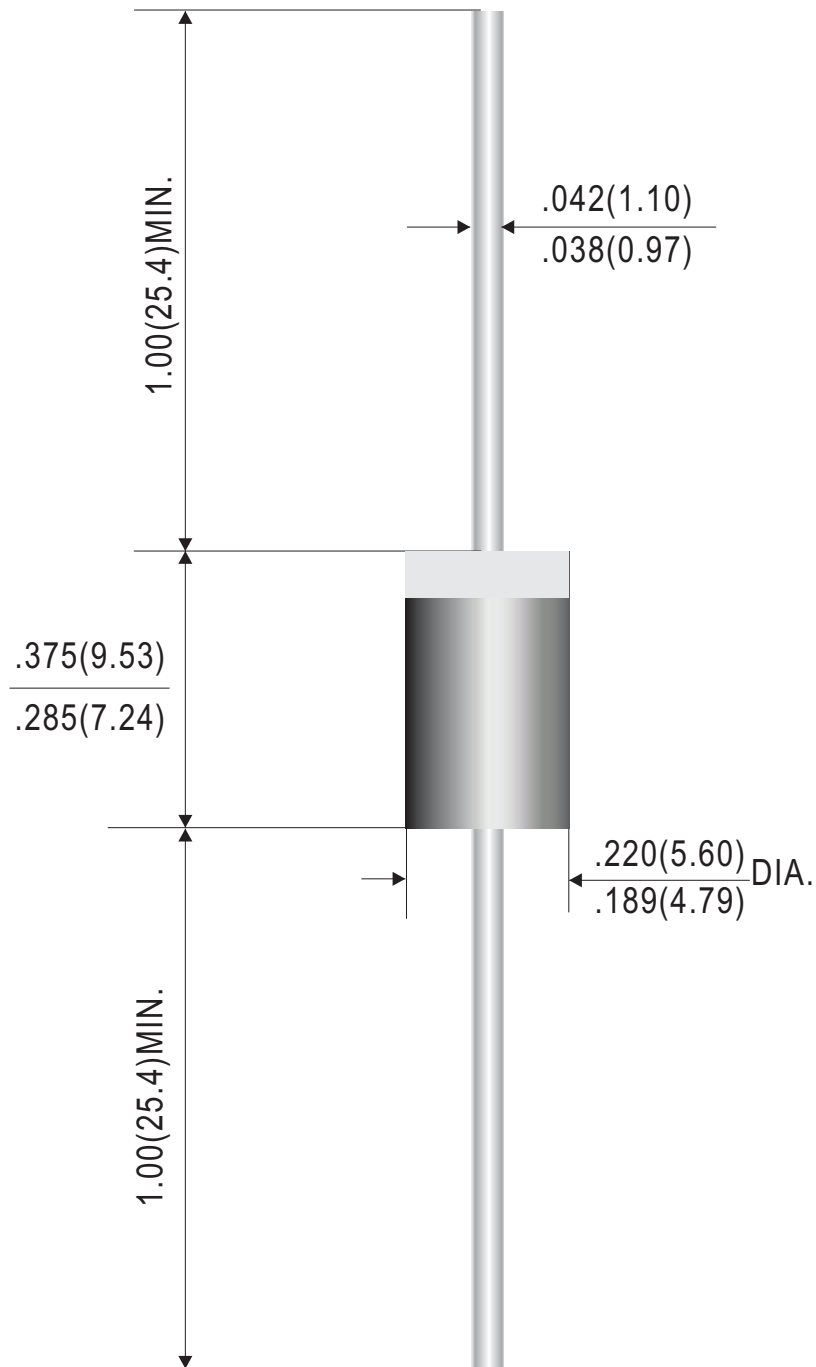


Fig.6-Typical Junction Capacitance



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" .

*****Disclaimer*****

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

This is the preliminary specification. WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.