

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

## 1. Scope

The present specifications shall apply to an AP01C.

## 2. Outline

Type	Silicon Diode
Structure	Resin Molded
Applications	High Frequency Rectification

## 3. Flammability

UL94V-0(Equivalent)

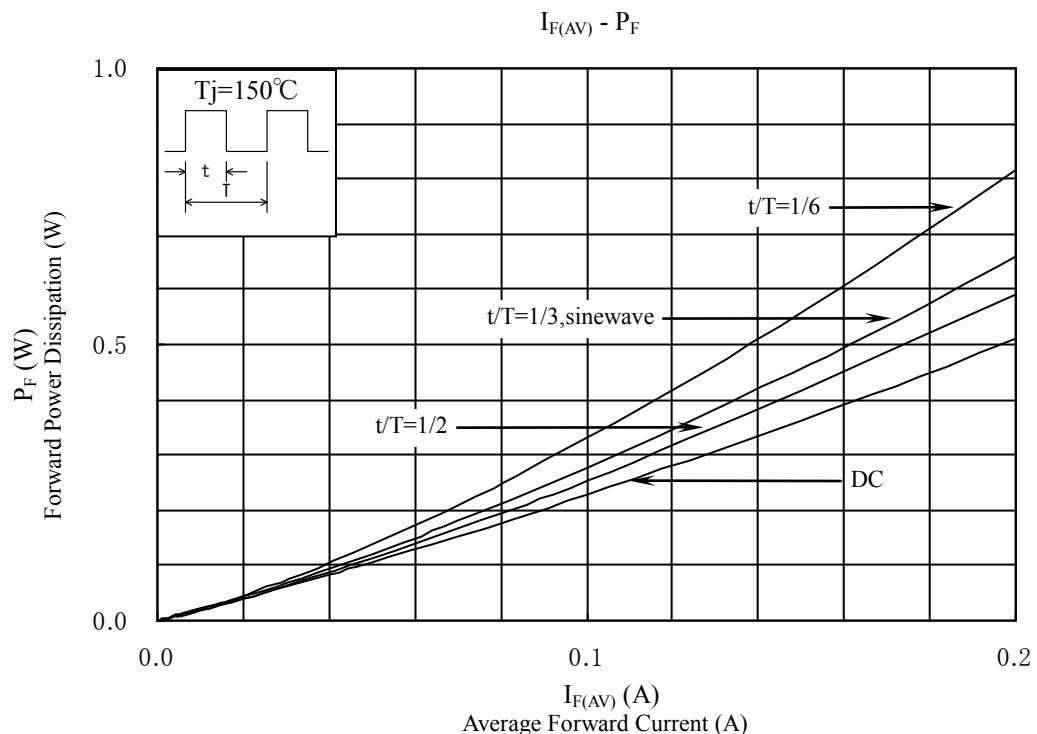
## 4. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	$V_{RSM}$	V	1050	
2	Peak Reverse Voltage	$V_{RM}$	V	1000	
3	Average Forward Current	$I_{F(AV)}$	A	0.2	Refer to Derating of 7
4	Peak Surge Forward Current	$I_{FSM}$	A	5.0	10msec. Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	0.125	$1\text{msec} \leq t \leq 10\text{msec}$
6	Junction Temperature	$T_j$	$^{\circ}\text{C}$	-40~+150	
7	Storage Temperature	$T_{stg}$	$^{\circ}\text{C}$	-40~+150	

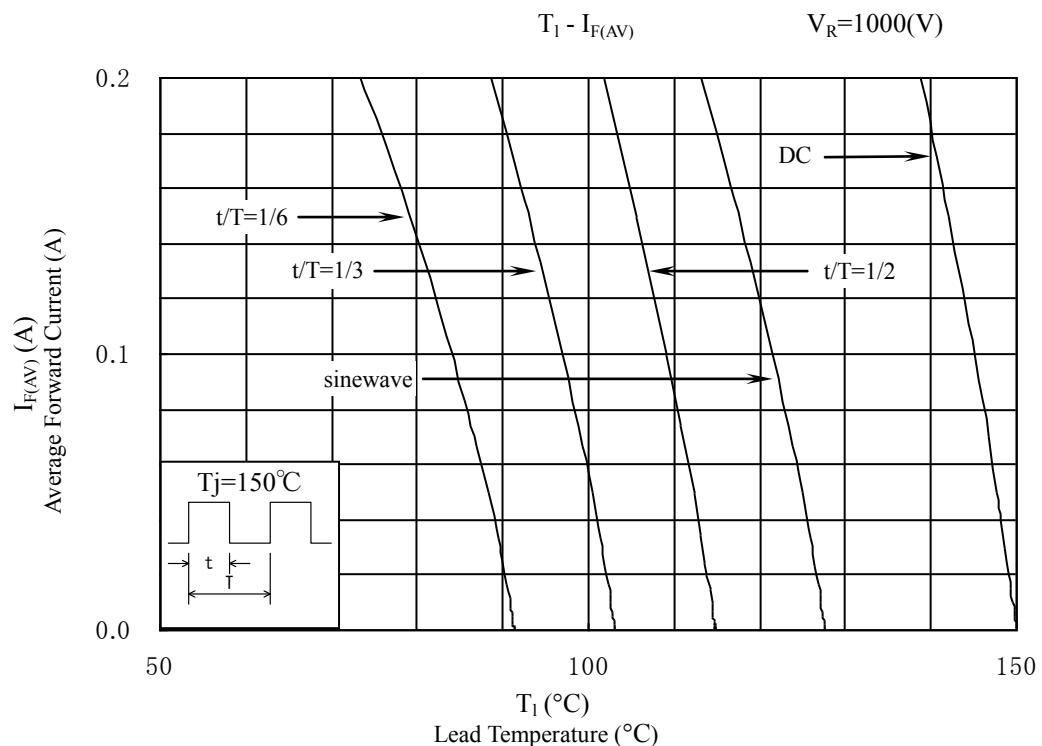
5. Electrical characteristics ( $T_a=25^{\circ}\text{C}$  , unless otherwise specified)

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	4.0 max.	$I_F=0.2\text{A}$
2	Reverse Leakage Current	$I_R$	$\mu\text{A}$	100 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	$\mu\text{A}$	500 max.	$V_R=V_{RM}, T_j=100^{\circ}\text{C}$
4	Reverse Recovery Time	$t_{rr1}$	ns	200 max.	$I_F=I_{RP}=100\text{mA}$ 90% Recovery point, $T_j=25^{\circ}\text{C}$
		$t_{rr2}$	ns	80 max.	$I_F=100\text{mA}, I_{RP}=200\text{mA}$ 75% Recovery point, $T_j=25^{\circ}\text{C}$
5	Thermal Resistance	$R_{th(j-l)}$	$^{\circ}\text{C}/\text{W}$	22 max.	Between Junction and Lead

## 6. Characteristics

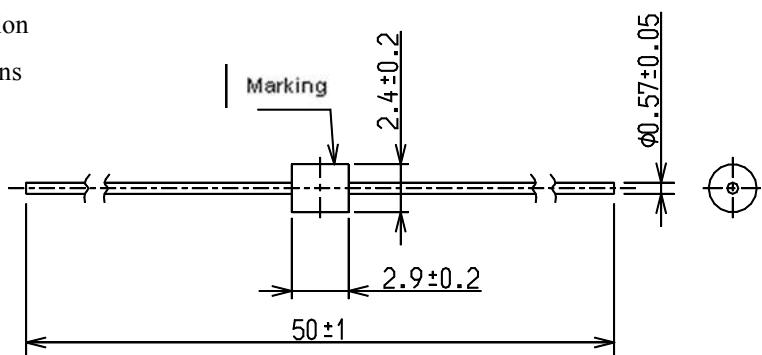


## 7. Derating



## 8. Package information

## 8-1 Dimensions



Dimensions in mm

※1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)

※2 The centric allowance of lead wire against center of physical body is 0.2mm(max.)

※3 The burr may exit up to 2mm from the body of lead

※4 Whole lead wire is 62.0±1.0, with 52mm taping.

## 8-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

## 8-3 Marking

① Type number : AP01C is abbreviated as PC

② Lot number 1  
Last digit of Year

③ Lot number 2  
Month  
From 1 to 9 for Jan. to Sep.  
O for Oct., N for Nov., and D for Dec.

