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

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1. Scope

The present specifications shall apply to an EU2.

2. Outline

Type	Silicon Diode
Structure	Resin Molded Flammability:UL94-V0(Equivalent)
Applications	High Frequency Rectification, etc.

3. Absolute maximum ratings

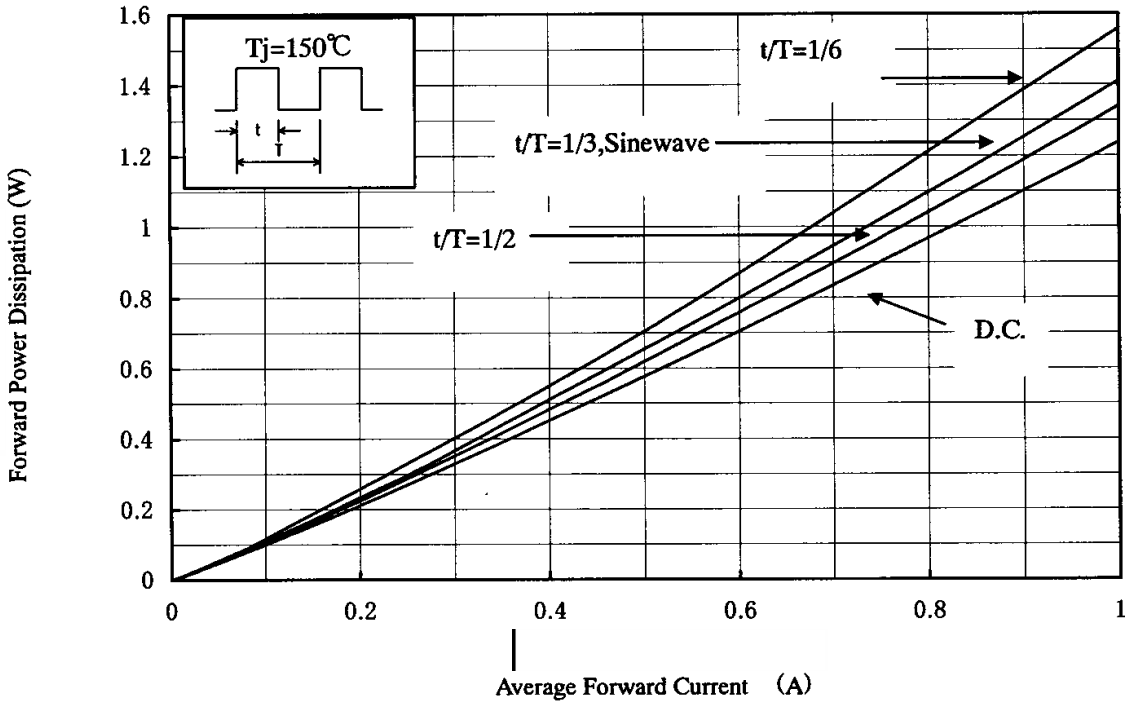
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	450	
2	Peak Reverse Voltage	V_{RM}	V	400	
3	Average Forward Current	$I_{F(AV)}$	A	1.0	Tl=113.5°C, Sinewave
4	Peak Surge Forward Current	I_{FSM}	A	15	10msec. Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	1.125	
6	Junction Temperature	T_j	°C	-40~+150	
7	Storage Temperature	T_{stg}	°C	-40~+150	

4. Electrical characteristics

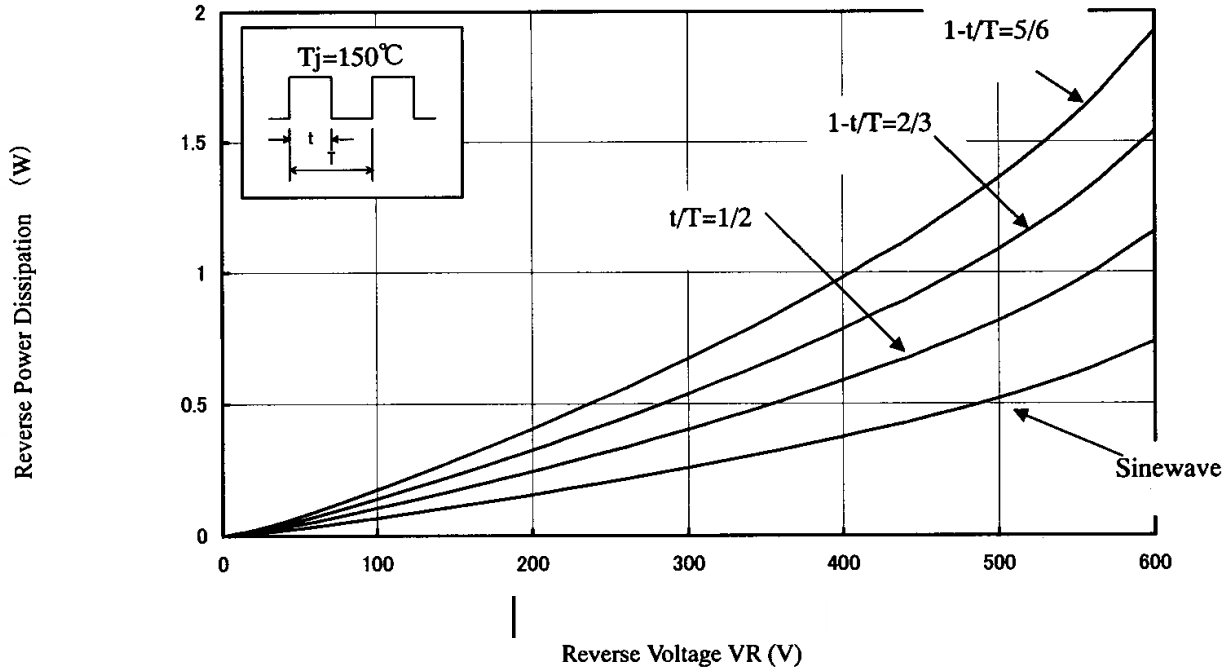
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.4 max.	I_F=1.0A
2	Reverse Leakage Current	I_R	μA	10 max.	V_R=V_{RM}
3	Reverse Leakage Current Under High Temperature	H·I_R	μA	300 max.	V_R=V_{RM}, T_j=100°C
4	Reverse Recovery Time	Trr-1	μs	0.4 max.	I_F=I_{RP}=10mA, Ta=25°C 90% Recovery point
		Trr-2	μs	0.18 max.	I_F=10mA, I_{RP}=20mA, Ta=25°C 75% Recovery point
5	Thermal Resistance	$R_{th(j-l)}$	°C /W	17 max.	Between Junction and Lead

5. Characteristics

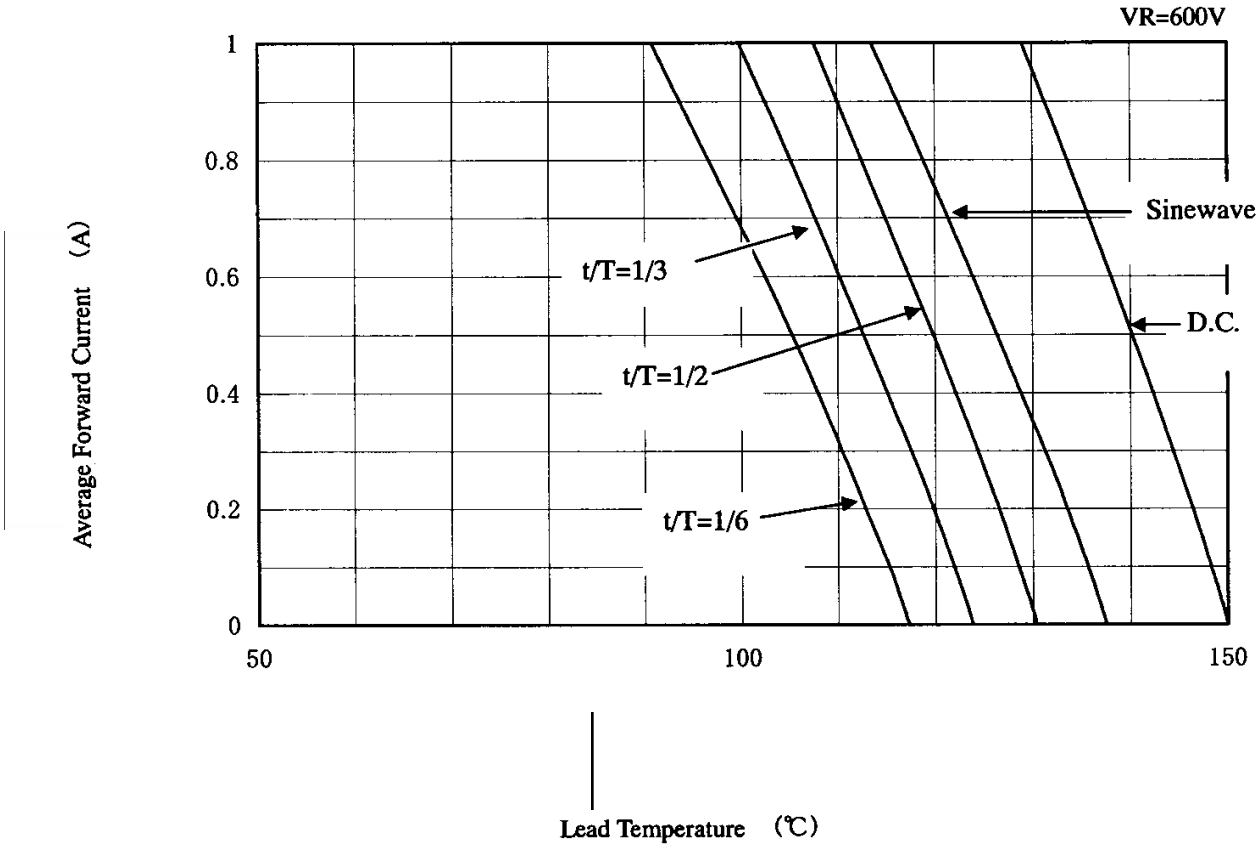
Average Forward Current—Forward Power Dissipation



Reverse Voltage—Reverse Power Dissipation

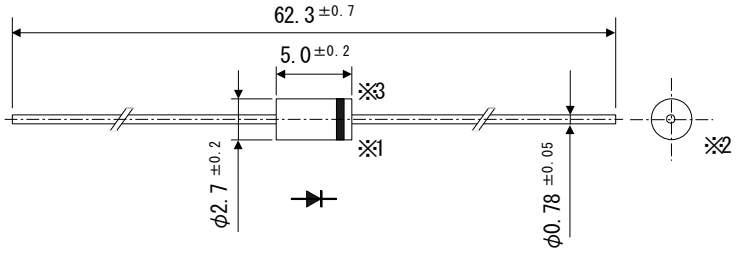


6. Derating


VR=600V
1
0.8
0.6
0.4
0.2
0
50
100
150
Sinewave
D.C.
t/T=1/3
t/T=1/2
t/T=1/6
Average Forward Current (A)
Lead Temperature (℃)

7. Package information

7-1 Package type, physical dimensions and material



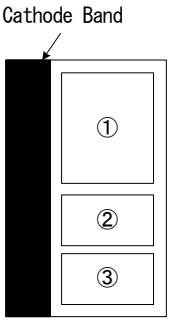
Dimensions in mm

*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 0.3mm(max.)
*3 The burr may exit up to 2mm from the body of lead

7-2 Appearance

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

7-3 Marking



① Type number EU2 is abbreviated as U2

② Lot number 1
First digit: Last digit of Year
Second digit: Month
From 1 to 9 for Jan. to Sep.
O for Oct., N for Nov., and D for Dec.

③ Lot number 2 (ten days)
・: Top of the month
・・: Middle of month
・・・: End of month

The Type number and Lot number are to be marked in silver.