



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

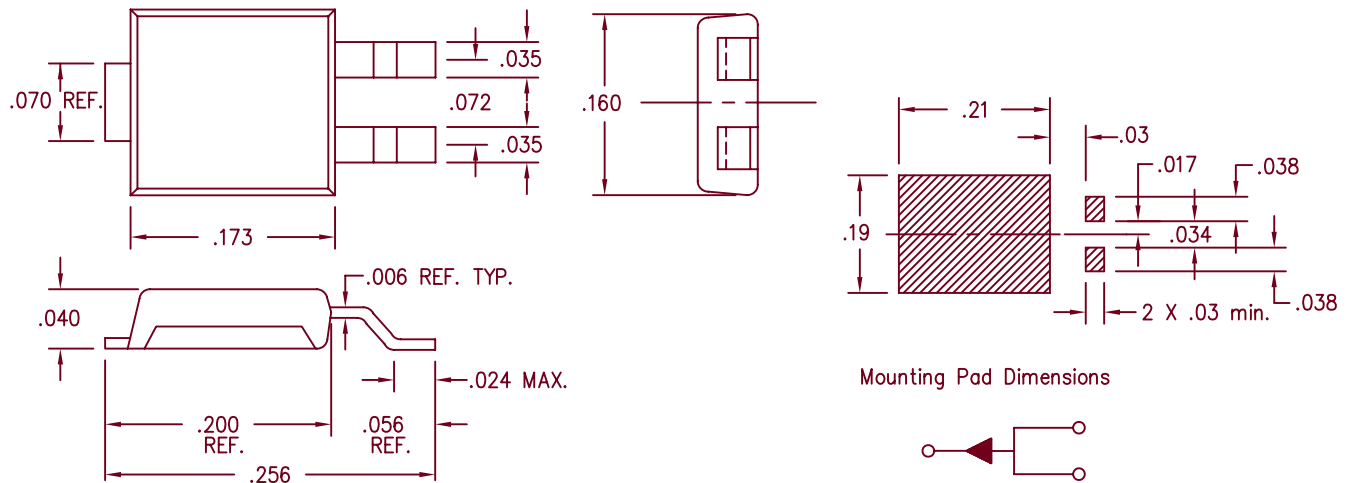
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

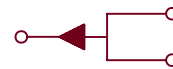
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3 Amp Schottky OR'ing Rectifier UPS315



Mounting Pad Dimensions



Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UPS315	----	15V	15V

- Powermite 3 package
- Schottky barrier rectifier
- $V_f @ 3A, 100^\circ C = 0.22V$
- Guard ring for reverse protection
- $125^\circ C$ Junction temperature
- Full Cathode contact to optimize ratings

Electrical Characteristics

Average forward current	$I_F(AV) 3A$	$T_L = 104^\circ C$
Maximum surge current	$I_{FSM} 150 \text{ Amps}$	8.3ms, half sine
Maximum repetitive reverse current	$I_{R(OV)} 2 \text{ Amps}$	$f = 1 \text{ KHz}, 25^\circ C, 1 \mu\text{sec square wave}$
Max peak forward voltage	$V_{FM} 0.32 \text{ Volts}$	$I_{FM} = 3A; T_J = 25^\circ C^*$
Max peak forward voltage	$V_{FM} 0.22 \text{ Volts}$	$I_{FM} = 3A; T_J = 100^\circ C^*$
Max peak reverse current	$I_{RM} 2 \text{ mA}$	$V_{RRM}, T_J = 25^\circ C^*$
Typical peak reverse current	$I_{RM} 70 \text{ mA}$	$V_{RRM}, T_J = 100^\circ C^*$
Typical peak reverse current	$I_{RM} 40 \text{ mA}$	$V_R = 5V, T_J = 100^\circ C^*$
Typical junction capacitance	$C_J 600 \text{ pF}$	$V_R = 5.0V, T_J = 25^\circ C$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	$-55^\circ C$ to $150^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $125^\circ C$
Max thermal resistance - Junction to Case	$R_{\theta Jtab}$	$9^\circ C/W$



8700 East Thomas Road, P.O. Box 1390
Scottsdale, AZ 85252
PH: (480) 941-6300
FAX: (480) 947-1503
www.microsemi.com

05-30-07 Rev. 2

UPS315

Figure 1
Typical Forward Characteristics

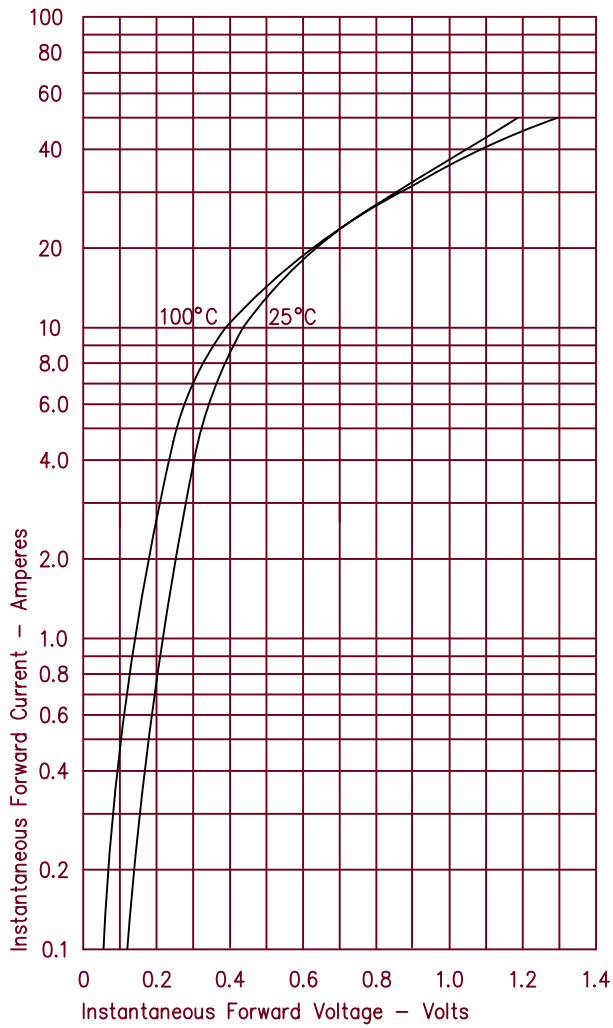


Figure 3
Typical Junction Capacitance

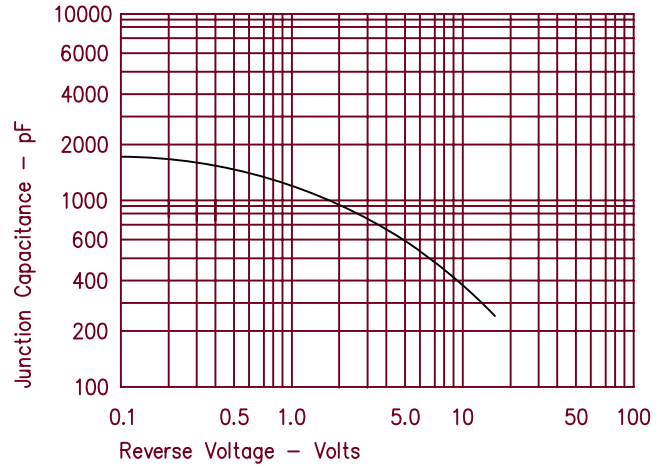


Figure 2
Typical Reverse Characteristics

