



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

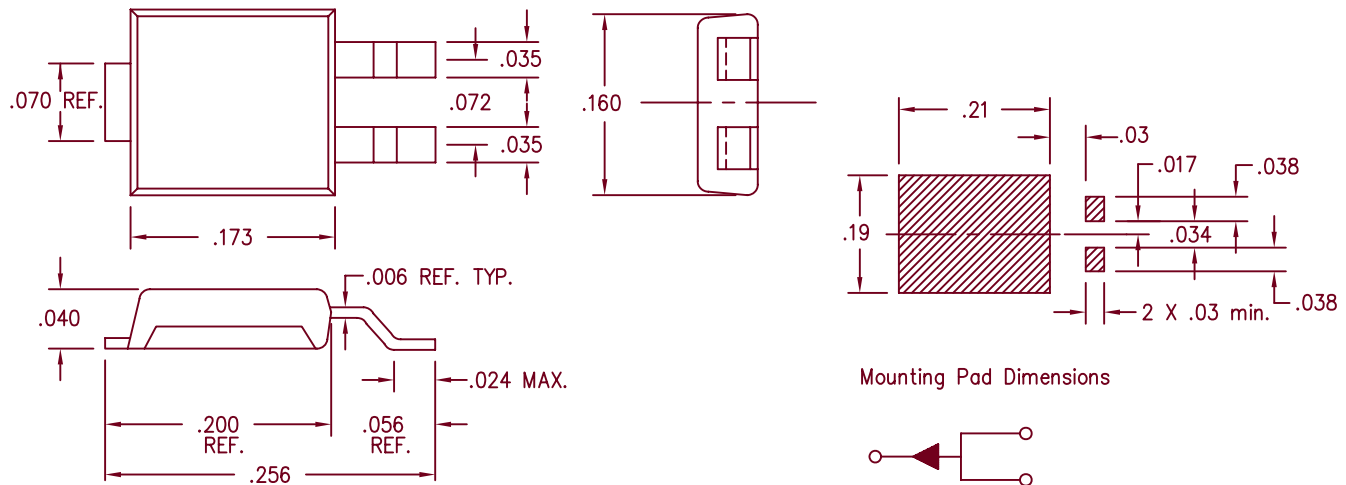
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# 6 Amp Schottky OR'ing Rectifier UPS615



Mounting Pad Dimensions

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UPS615	----	15V	15V

- Powermite 3 package
- Schottky barrier rectifier
- $V_f @ 6A, 100^\circ C = 0.22V$
- Guard ring for reverse protection
- $125^\circ C$  Junction temperature
- Full Cathode contact to optimize ratings

## Electrical Characteristics

Average forward current	$I_{F(AV)}$ 6A	$T_L = 105^\circ C$
Maximum surge current	$I_{FSM}$ 300 Amps	8.3ms, half sine
Maximum repetitive reverse current	$I_{R(OV)}$ 2 Amps	$f = 1 \text{ KHz}, 25^\circ C, 1 \mu\text{sec square wave}$
Max peak forward voltage	$V_{FM}$ 0.32 Volts	$I_{FM} = 6A; T_J = 25^\circ C^*$
Max peak forward voltage	$V_{FM}$ 0.22 Volts	$I_{FM} = 6A; T_J = 100^\circ C^*$
Max peak reverse current	$I_{RM}$ 4 mA	$V_{RRM}, T_J = 25^\circ C^*$
Typical peak reverse current	$I_{RM}$ 135 mA	$V_{RRM}, T_J = 100^\circ C^*$
Typical peak reverse current	$I_{RM}$ 75 mA	$V_R = 5V, T_J = 100^\circ C^*$
Typical junction capacitance	$C_J$ 1250 pF	$V_R = 5.0V, T_J = 25^\circ C$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , 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	$R_{\theta Jtab}$	$4^\circ C/W$



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# UPS615

Figure 1  
Typical Forward Characteristics

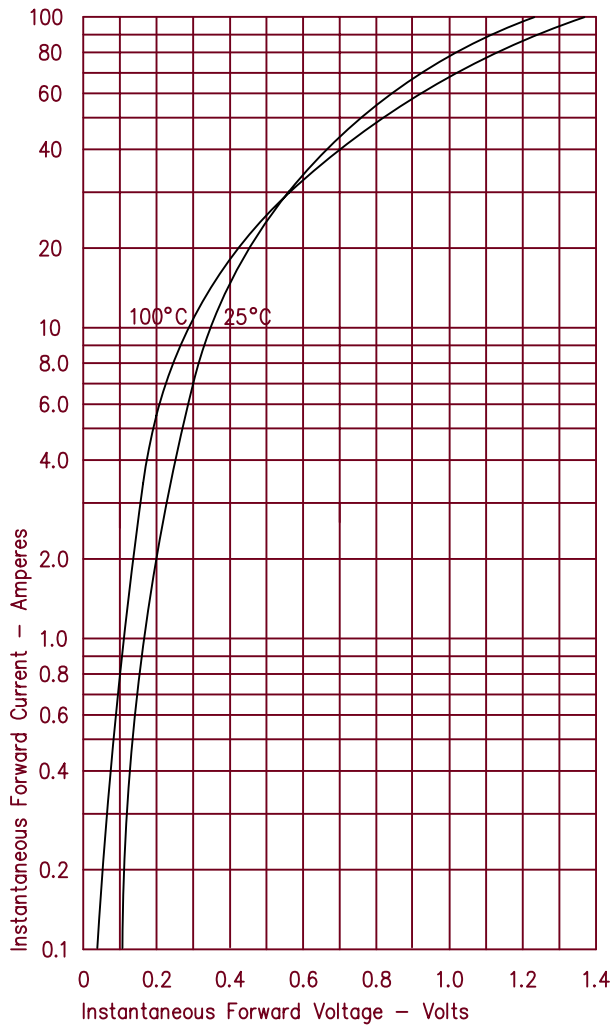


Figure 3  
Typical Junction Capacitance

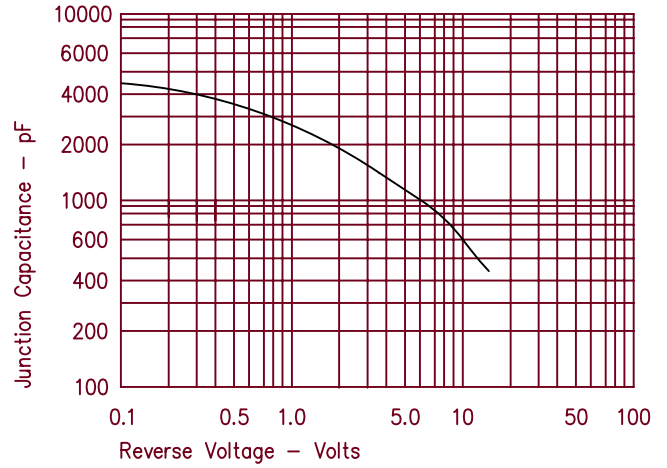


Figure 2  
Typical Reverse Characteristics

