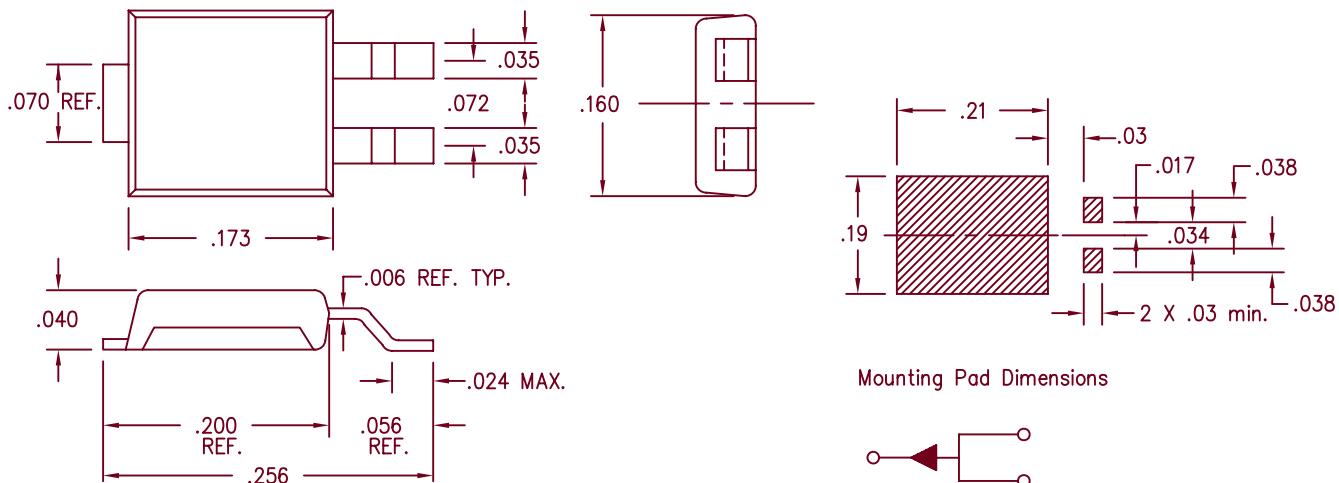


6 Amp Schottky OR'ing Rectifier

UPS615



Mounting Pad Dimensions

Microsemi Catalog Number	Industry Part Number	Working Reverse Voltage	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	$f = 1$ KHz, $25^\circ C$, 1 μ sec square wave
Max peak forward voltage	V_{FM} 0.32 Volts	$I_{FM} = 6A; TJ = 25^\circ C^*$
Max peak forward voltage	V_{FM} 0.22 Volts	$I_{FM} = 6A; TJ = 100^\circ C^*$
Max peak reverse current	I_{RM} 4 mA	$V_{RRM}, TJ = 25^\circ C^*$
Typical peak reverse current	I_{RM} 135 mA	$V_{RRM}, TJ = 100^\circ C^*$
Typical peak reverse current	I_{RM} 75 mA	$V_R = 5V, TJ = 100^\circ C^*$
Typical junction capacitance	C_J 1250 pF	$V_R = 5.0V, TJ = 25^\circ C$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	-55°C to 150°C
Operating junction temp range	T_{J}	-55°C to 125°C
Max thermal resistance - Junction to Case	$R_{\theta Jtab}$	4°C/W



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05-30-07 Rev. 3

UPS615

Figure 1
Typical Forward Characteristics

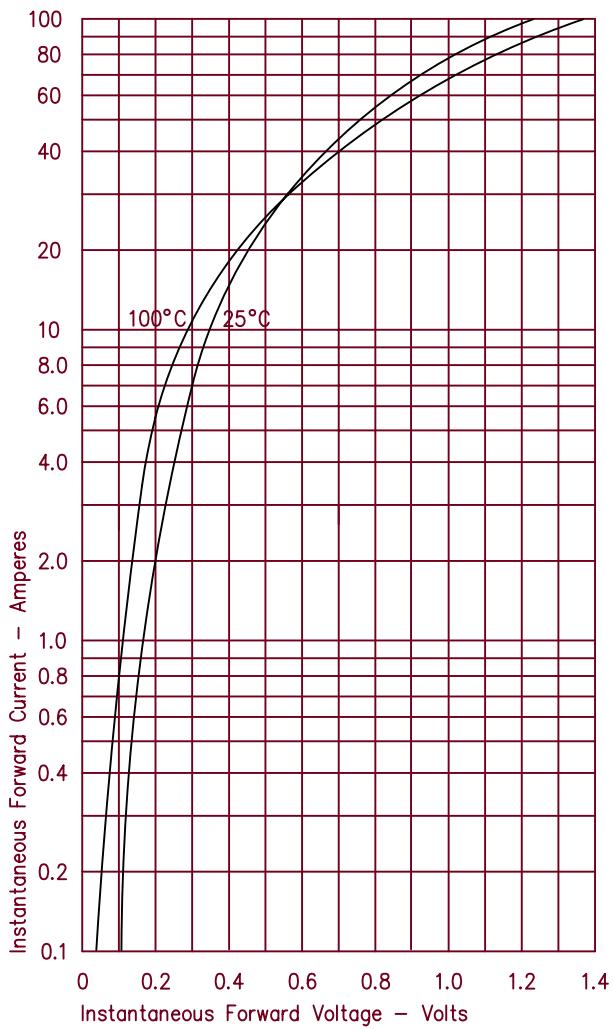


Figure 3
Typical Junction Capacitance

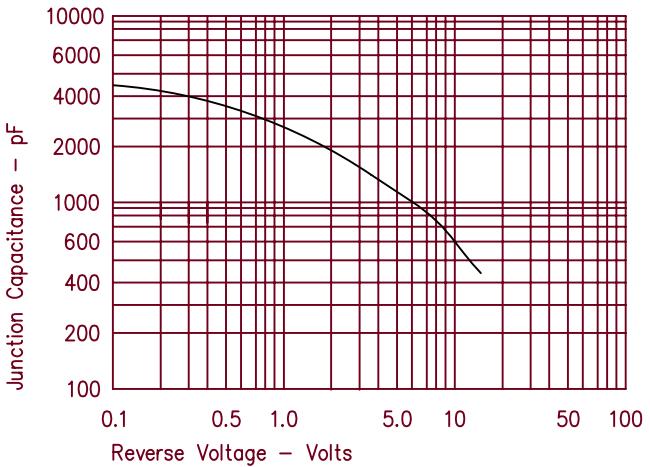


Figure 2
Typical Reverse Characteristics

