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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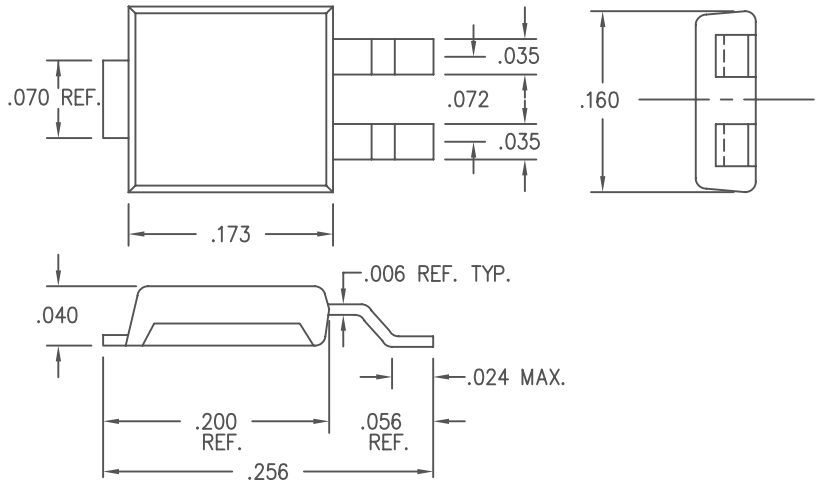
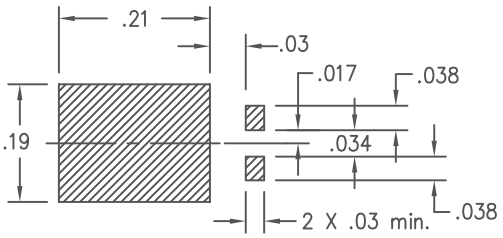
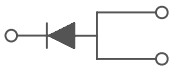
# 6 Amp Schottky Rectifier

# UPS6150




Mounting Pad Dimensions



| Microsemi Catalog Number | Industry Part Number | Working Peak Reverse Voltage | Repetitive Peak Reverse Voltage |
|---|---|---|---|
| UPS6150 | ---- | 150V | 150V |

- Powermite 3 package
- Schottky barrier rectifier
- $V_f$ @ 6A, 125°C = 0.65V
- Guard ring for reverse protection
- 15A Junction temperature
- Full Cathode contact to optimize ratings

## Electrical Characteristics

| | | | |
|---|---|---|---|
| Average forward current | $I_{F(AV)}$ | 6A | $T_L$ = 132°C |
| Maximum surge current | $I_{FSM}$ | 225 Amps | 8.3ms, half sine |
| Maximum surge current | $I_{FSM}$ | 215 Amps | 10ms, half sine |
| Maximum repetitive reverse current | $I_R$ | 2 Amps | f = 1 KHz, 25°C, 1 μsec square wave |
| Max peak forward voltage | $V_{FM}$ | 0.75 Volts | $I_{FM}$ = 6A: $T_J$ = 25°C* |
| Max peak forward voltage | $V_{FM}$ | 0.65 Volts | $I_{FM}$ = 6A: $T_J$ = 125°C* |
| Max peak reverse current | $I_{RM}$ | 100 uA | $V_{RRM}$, $T_J$ = 25°C* |
| Typical peak reverse current | $I_{RM}$ | 200 uA | $V_{RRM}$, $T_J$ = 125°C* |
| Typical junction capacitance | $C_J$ | 280 pF | $V_R$ = 5.0V, $T_J$ = 25°C |

*Pulse test: Pulse width 300 μsec, 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 150°C |
| Max thermal resistance – Junction to Case | $R_{\theta Jtab}$ | 4°C/W |


SCOTTSDALE Microsemi

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*www.microsemi.com*



05-30-07 Rev. 1

# UPS6150

Figure 1
Typical Forward Characteristics – Per Leg

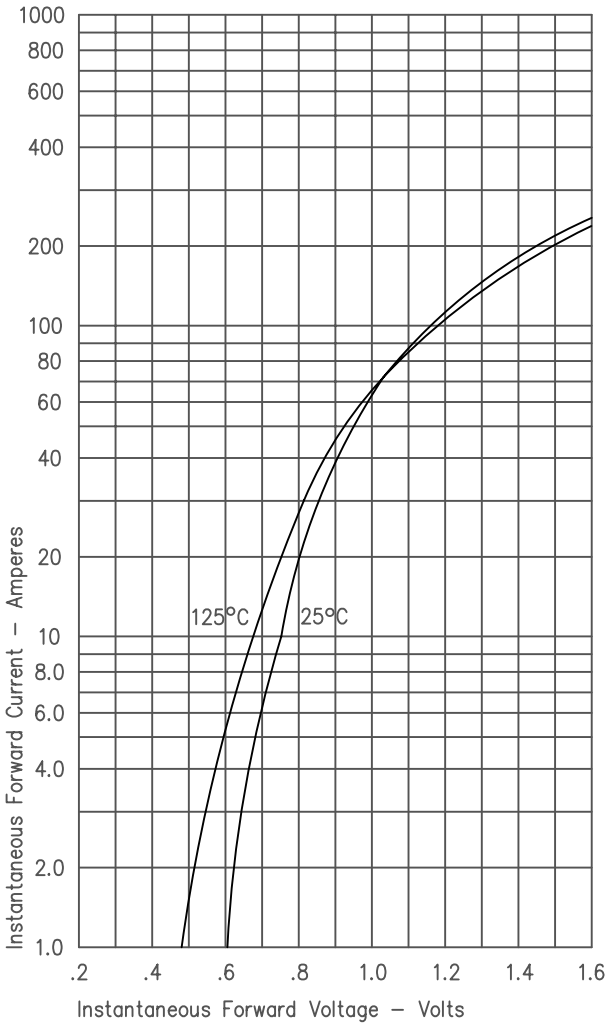


Figure 2
Typical Reverse Characteristics – Per Leg

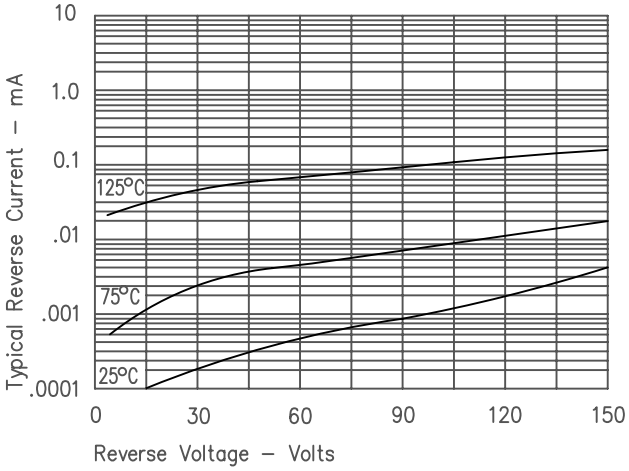


Figure 3
Typical Junction Capacitance – Per Leg

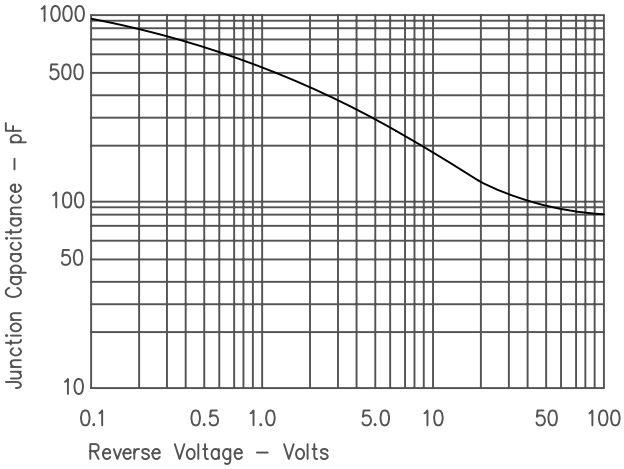


Figure 4
Forward Current Derating – Per Leg

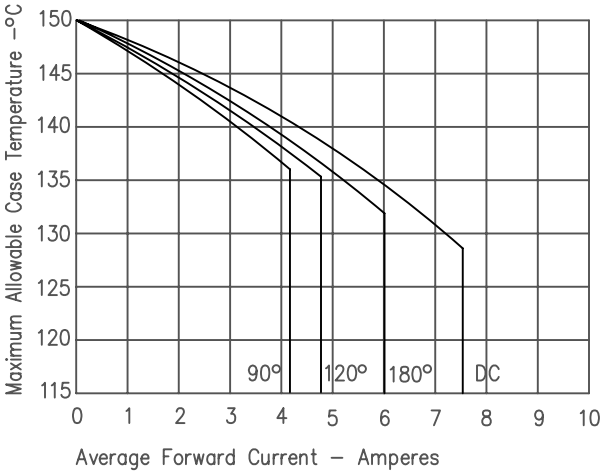


Figure 5
Maximum Forward Power Dissipation – Per Leg