

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!



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SURFACE MOUNT UES RECTIFIERS

UPR20 UPR30 UPR40

Package
High Efficiency, 2A, 50nSec

FEATURES

- High Power Surface Mount Package
- Ultra-fast Recovery Time (50nS)
- Low Forward Voltage
- Integral Heat Sink/Locking Tabs
- Compatible with Automatic Insertion Equipment
- Full Metallic Bottom Eliminates Flux Entrapment

DESCRIPTION

In Microsemi's new Powermite SMT package, these high efficiency ultrafast rectifiers offer the power handling capabilities previously found only in much larger packages. They are ideal for SMD applications that operate at high frequencies.

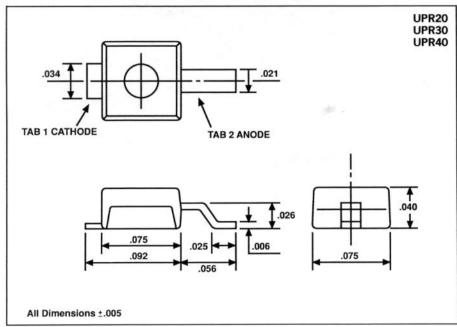
In addition to its size advantages, Powermite package features include a full metallic bottom that eliminates the possibility of solder flux entrapment during assembly, and a unique locking tab acts as an integral heat sink. Its innovative design makes this device ideal for use with automatic insertion equipment.

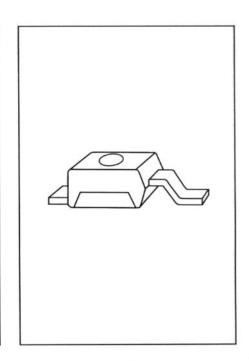
ABSOLUTE MAXIMUM RATINGS

Maximum Reverse Voltage, UPR20	200V
Maximum Reverse Voltage, UPR30	
Maximum Reverse Voltage, UPR40	400V
Maximum Average Output Current, T _{TAB 1} = 75°C	2.0A*
Thermal Resistance, Junction to Tab	
Thermal Resistance, Junction to Bottom	°C/W
Non-Repetitive Sinusoidal Surge Current (8.3mS)	.20A
Operating and Storage Temperature55°C to +1	.50°C

^{*}WHEN MOUNTED ON A PC BOARD WITH 2 OZ. COPPER.

MECHANICAL SPECIFICATIONS







ELECTRICAL CHARACTERISTICS (T_A = 25°C unless noted)

TEST	CONDITIONS	LIMIT	UNITS
Forward Voltage, V _F	I _F = 1 Amp	1.25	Volts
Forward Voltage, V _F	I _F = 1 Amp, T _J = 100°C	1.15	Volts
Reverse Current, I _R	V _R = Max Rating	10	μAmps
Reverse Current, I _R	V _R = Max Rating, T _J = 100°C	100	μAmps
Reverse Recovery Time, T _{RR}	I _F = 0.5A, I _R = 1.0A I _{REC} = 0.25 A	50	nSec

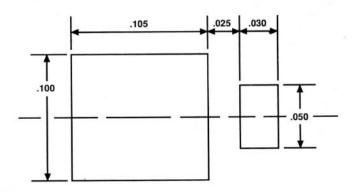


Figure 1. Suggested Mounting Pad Dimensions