UPT5 - UPT48 UPTB5 - UPTB48

FOWERMITE Package 5 to 48V, 1000 Watts Peak

FEATURES

- Peak Pulse Power 1000W for 8 x 20 microsec pulse
- Clamping Time in Picoseconds
- Integral Heat Sink/Locking Tabs
- Full Metallic Bottom Eliminates
 Flux Entrapment
- Bidirectional Version Available

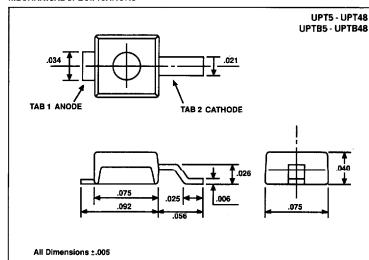
DESCRIPTION

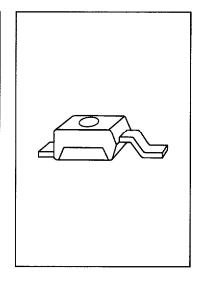
Microsemi's new Powermite UPT series of transient voltage suppressors feature oxide passivated zener type chips with high-temperature solder bonds to achieve high surge capability and negligible electrical degradation under repeated surge conditions.

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 that acts as an integral heat sink. Its innovative design makes this device fully compatible for use with automatic insertion equipment.

ABSOLUTE MAXIMUM RATINGS AT 25°C

MECHANICAL SPECIFICATIONS







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ELECTRICAL CHARACTERISTICS AT 25°C

Туре		Stand-Off Voltage V _R	Minimum Breakdown Voltage BV(min) @ 1mA	Maximum Leakage Current I _R @ V _R	Maximum Peak Current*	Maximum Clamping Voltage* V _C @ 10A	Maximum Temp. Coef. of BV
Unidirectional	Bidirectional	(V)	(V)	(μ A)	(A)	(V)	(%/°C)
UPT5	UPTB5	5	6.0	50	89.4	9.5	.030
UPT8	UPTB8	8	9.0	2	62.1	13.7	.040
UPT12	UPTB12	12	13.8	1	40.3	21.6	.050
UPT15	UPTB15	15	16.7	1	33.9	26.0	.055
UPT17	UPTB17	17	19.0	1	30.8	29.2	.060
UPT24	UPTB24	24	28.4	1	22.0	43.2	.070
UPT28	UPTB28	28	31.0	1	19.2	47.8	.075
UPT33	UPTB33	33	36.8	1	16.4	56./	.080
UPT48	UPTB48	48	54.0	1	11.2	84.3	.090

^{*}See Figure 1.

