MVP Series

Description

MVP Series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

Features

- Glass passivated chip
- 6000 W peak pulse power capability with a 10/1000μs waveform
- Low leakage
- Terminal: solder plated, solderable per J-STD-002
- Fast response time: typically less than 1.0ps from 0V to VBR min.
- Complies with following standards: GB3836

Mechanical Data

- Case: Moulded plastic over glass passivated junction
- Terminal: Plated Axial leads, solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Polarity: : Color band denotes cathode end except
 Bipolar



Maximum Ratings (TA=25 $^{\circ}$ C unless otherwise noted)

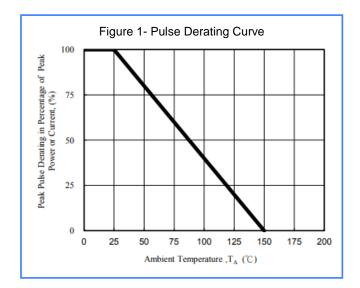
Parameter	Symbol	Value	Unit
Peak power dissipation with a 10/1000µs waveform ¹	P _{PP}	6000	Watts
Peak pulse current wih a 10/1000µs waveform	lpp	See Next Table	А
Power dissipation on infinite heatsink at TL = 25 °C	PD	8	W
Peak forward surge current 8.3 ms single half sine-	I _{FSM}	400	А
Typical thermal resistance junction to ambient	$R_{\theta JA}$	40	°C/W
Operating junction and storage temperature range	T _J T _{STG}	-55 to +150	°C

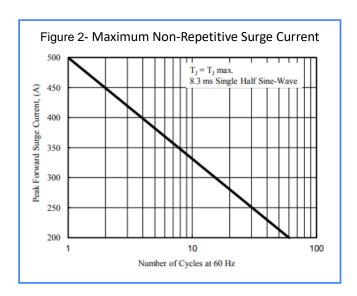
Electrical Characteristics (TA = 25 °C unless otherwise noted)

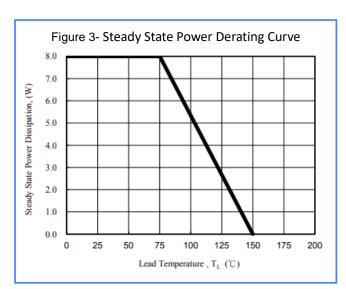
Part Number (Bi)	Reverse Breake Stand off Voltage V _{BR}		Test		Maximum Reverse	Maximum Peak Pulse	Maximum Clamping
	Voltage V _R (Volts)	Min .V	Max .V	I _T (mA)	Leakage I _R @ V _R (μΑ)	Current I pp (A)	Voltage V _C @ I _{pp} (V)
MVP24CA	24	26.7	29.5	5	2	154.24	38.9
MVP26CA	26	28.9	31.9	5	2	142.5	42.1
MVP30CA	30	33.3	36.8	5	2	124.0	48.4
MVP33CA	33	36.7	40.6	5	2	112.6	53.3
MVP36CA	36	40.0	44.2	5	2	103.3	58.1

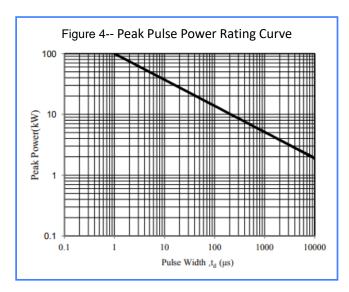


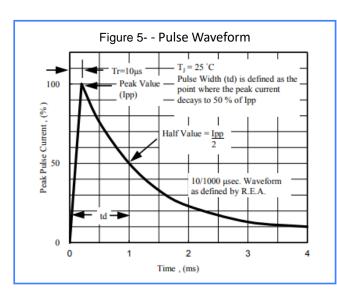
Rating & Characteristic Curves

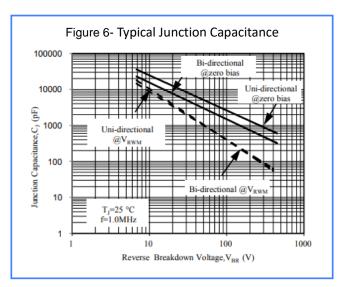




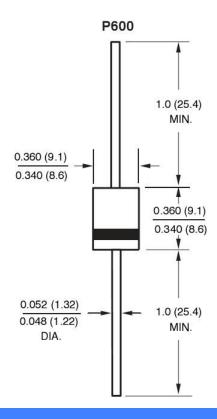








PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.