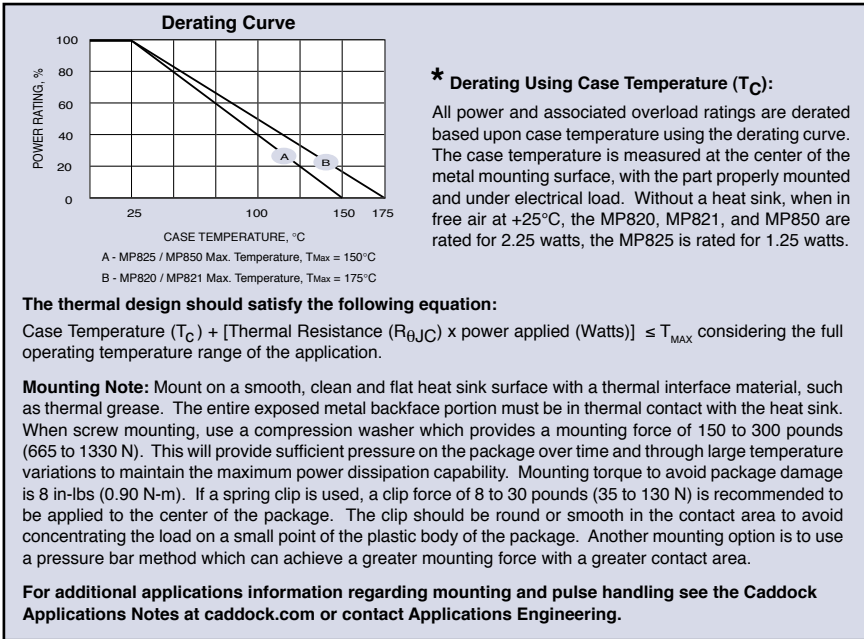


Model No.	Package	Resistance		Power Rating	Max. Voltage	Thermal Resistance $R_{\theta JC}$ Film (J) to Case (C)	Max. Temp. T_{MAX}	Dimensions	Comments
		Min.	Max.						
MP820	TO-220 Style	10.0 Ω	10.0 K	20 Watts*	300	7.50°C/Watt	175°C	Figure 1	Metal Mounting Tab
MP821	TO-220 Style	0.020 Ω	9.99 Ω	20 Watts*	Power Limited	7.50°C/Watt	175°C	Figure 1	Metal Mounting Tab
MP825	TO-126 Style	0.020 Ω	10.0 K	25 Watts*	300	5.00°C/Watt	150°C	Figure 2	Integral Metal Mounting Surface in Molded Package
MP850	TO-220 Style	0.20 Ω	10.0 K	50 Watts*	300	2.50°C/Watt	150°C	Figure 3	Integral Metal Mounting Surface in Molded Package



Specifications:

Temperature Coefficient:
 TC referenced to +25°C, ΔR taken at T_{MAX}

5.00 ohms and above, -20 to +50 ppm/°C
 0.50 ohm to 4.99 ohms, -20 to +80 ppm/°C
 0.050 ohm to 0.49 ohm, 0 to +200 ppm/°C
 0.020 ohm to 0.049 ohm, 0 to +300 ppm/°C

Operating Temperature: -55°C to T_{MAX}

Inductance: 10nH typical in series when measured at a point 0.2 inches from the resistor body.

DWV: The dielectric strength rating of 1500 $V_{rms} AC$ is based upon connections made between terminals shorted and either the metal surface the part is mounted to or a metal clip in contact with the top surface of the part.

Insulation Resistance: 10,000 Megohms, min.
 The resistor element is electrically isolated from the mounting surface.

Load Stability: 2,000 hours at rated power.
 $\Delta R \pm(1.0 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$ Power rating dependent upon case temperature. See derating curve.

Momentary Overload:
 MP820, MP821, MP850: 2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds.
 $\Delta R \pm(0.3 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$

MP825: 1.5 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds.
 $\Delta R \pm(0.3 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$

Moisture Resistance: Mil-Std-202, Method 106.
 $\Delta R \pm(0.5 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$

Thermal Shock: Mil-Std-202, Method 107, Cond. F.
 $\Delta R \pm(0.3 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$

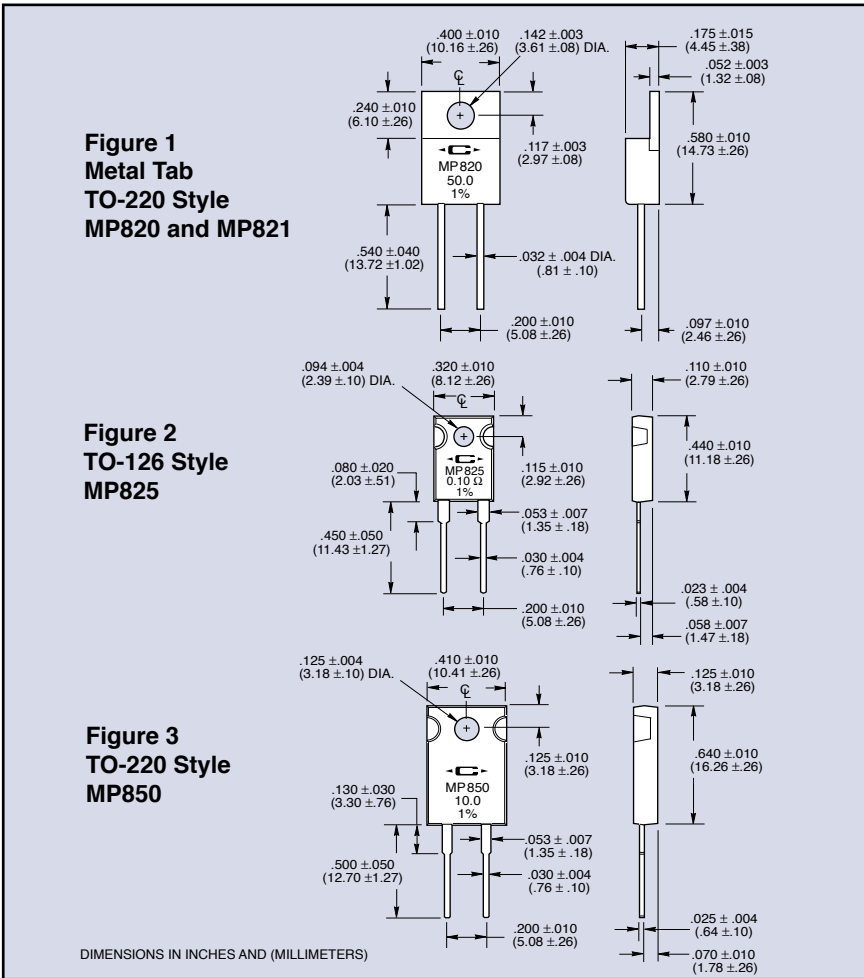
Shock: 100G, Mil-Std-202, Method 213, Cond. I.
 $\Delta R \pm(0.2 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$

Vibration, High Frequency: Mil-Std-202, Method 204, Cond. D. $\Delta R \pm(0.2 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$

Terminal Strength: Mil-Std-202, Method 211, Cond. A (Pull Test) 5 lbs. $\Delta R \pm(0.2 \text{ percent} + 0.001 \text{ ohm}) \text{ max.}$

Terminal Material: Solderable

Measurement Note: For these specifications, resistance measurement shall be made at a point 0.2 inch (5.08 mm) from the resistor body.



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