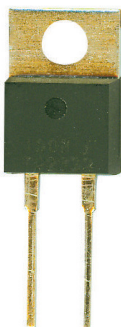


RoHS  
Compliant



## Features

- Molded case for environmental protection
- Electrically isolated case
- Non-inductive package

## Electrical Specifications

Power Rating (Watts) @ 25°C with Heat Sink	Free Air Power Rating	Max. Working Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance			
				0.5%	1%	5%	10%
35W	2.5W in free air at 25°C	350V	±50ppm/°C	11Ω - 10KΩ	11Ω - 10KΩ	11Ω - 10KΩ	11Ω - 10KΩ
			±100ppm/°C	11Ω - 10KΩ	5Ω - 10KΩ	5Ω - 10KΩ	5Ω - 10KΩ
			±200ppm/°C	11Ω - 10KΩ	1.1Ω - 10Ω	1.1Ω - 10Ω	1.1Ω - 10Ω
				11Ω - 10KΩ	0.05Ω - 1Ω**	0.05Ω - 1Ω**	0.05Ω - 1Ω**

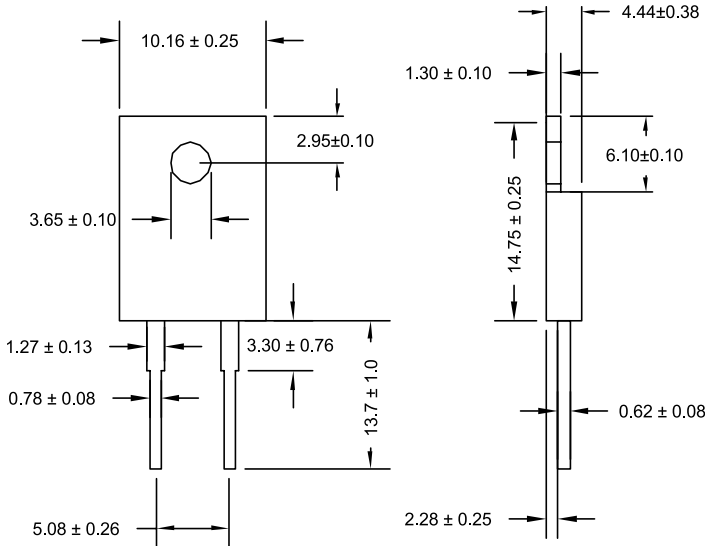
## Environmental Characteristics

Test Item	Specification	Test Method
Short Time Overload	$\Delta R \pm (0.3\% + 0.001\Omega)$	2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds
Load Life	$\Delta R \pm (1\% + 0.001\Omega)$	MIL-R-39009, 2000 hours at rated power
Moisture Resistance	$\Delta R \pm (0.5\% + 0.001\Omega)$	MIL-STD-202, Method 103B
Thermal Shock	$\Delta R \pm (0.3\% + 0.001\Omega)$	MIL-STD-202, Method 107G
Terminal Strength	$R \pm (0.2\% + 0.001\Omega)$	MIL-STD-202, Method 211, Condition A (Pull Test) 2.4N
Vibration, High Frequency	$R \pm (0.2\% + 0.001\Omega)$	MIL-STD-202, Method 204, Condition D
Dielectric Strength		1800V AC
Insulation Resistance		10GΩ Min.

## Mounting Note:

When mounting ensure entire ceramic portion of case is mounted on a clean, flat heat sink with an appropriate thermal interface, such as thermal grease. For screw mounting use of a compression washer at a force of 150 to 300lbs (665 to 1330N) is recommended without exceeding mounting torque of 8 in-lbs (0.9 N-m) to avoid package damage. For clip mounting use of a round or smooth clip in contact area is recommended to avoid a concentrated hot spot on package.

## Diagram



Dimensions : Millimetres

## Part Number Table

Description	Resistance	Part Number
MCTR Series, Power Resistor	1Ω	MCTR35T3-1R00JB
	10Ω	MCTR35T1-10R0JB
	5Ω	MCTR35T1-5R00JB
	100Ω	MCTR35T2-100RJB
	1kΩ	MCTR35T2-1001JB
	10kΩ	MCTR35T2-1002JB
	15Ω	MCTR35T2-15R0JB
	150Ω	MCTR35T2-150RJB
	22Ω	MCTR35T2-22R0JB
	220Ω	MCTR35T2-220RJB
	24Ω	MCTR35T2-24R0JB
	2.7kΩ	MCTR35T2-2701JB
	33Ω	MCTR35T2-33R0JB
	47Ω	MCTR35T2-47R0JB
	470kΩ	MCTR35T2-470RJB
	5kΩ	MCTR35T2-5001JB
51Ω	MCTR35T2-51R0JB	

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