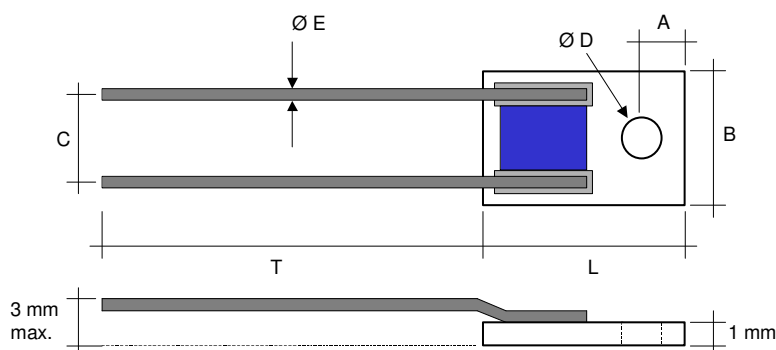


## High Power Resistors in TO Packages Steel Carrier, Non-Inductive



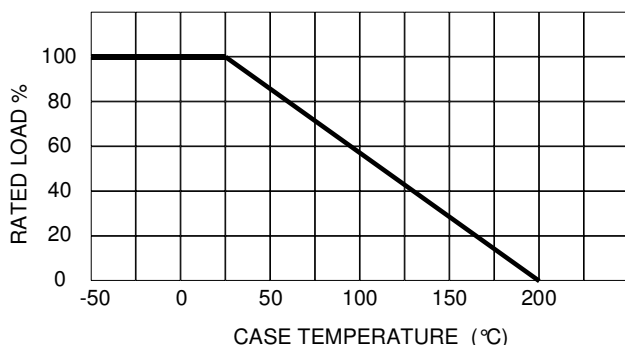
Type	Max. Voltage	L	B	T	C	E	D	A
TO-126	300 Volt	11.80	9.00	30	5.08	0.8	2.5	2.5
TO-220	300 Volt	16.50	11.00	30	5.08	0.8	3	3
TO-247	350 Volt	21.00	16.00	30	10.16	0.8	3.5	4

Dimensions in mm (max.)

### Characteristics

Power Rating :	TO-126 =	<b>2 W</b> in free air @ 25 °C (do not exceed 200 °C surface temperature) <b>30 W</b> on heat sink (see derating curve)	
	TO-220 =	<b>3.5 W</b> in free air @ 25 °C (do not exceed 200 °C surface temperature) <b>60 W</b> on heat sink (see derating curve)	
	TO-247 =	<b>6 W</b> in free air @ 25 °C (do not exceed 200 °C surface temperature) <b>120 W</b> on heat sink (see derating curve)	
Resistance Value :	0.05 Ohm up to 10 KOhm		
Temperature Coefficient :	50 ppm/°C, 100 ppm/°C		
Tolerance :	1%, 2%, 5%		
Operating Temperature :	-55 °C ... +200 °C		
Insulation Resistance :	> 1'000 MOhm	Between two terminals and mounting surface	
Dielectric Strength :	> 750 Volt	25 °C 75% Relative humidity	
Thermal Shock :	dR/R 0,3% max	MIL Std. 202, method 107 Cond. C IEC 68 - 2 - 14	
Overload :	dR/R 0,3% max	2,5 x Pnom, 5 sec ( do not exceed max. voltage )	
Moisture Resistance :	dR/R 0,5% max	MIL Std. 202, method 106	IEC 68 - 2 - 3
Load Life :	dR/R 1% max	1000 hours at rated power *	IEC 115 - 1
Encapsulation :	Screen Printed Silicone	Substrate Material :	Stainless Steel
Lead Material :	Tinned Copper	Resistor Material :	Ruthenium Oxide

### Derating Curve



The case temperature is to be used for purposes of establishing the maximum applied power. The case temperature measurement is made with the thermocouple contacting the bottom insulated mounting surface of the package (center of bottom surface), the device mounted on a heat sink, thermal grease applied at a mounting torque of up to 90 N-m (8 in-lbs) max.

\* Power rating depend upon case temperature