

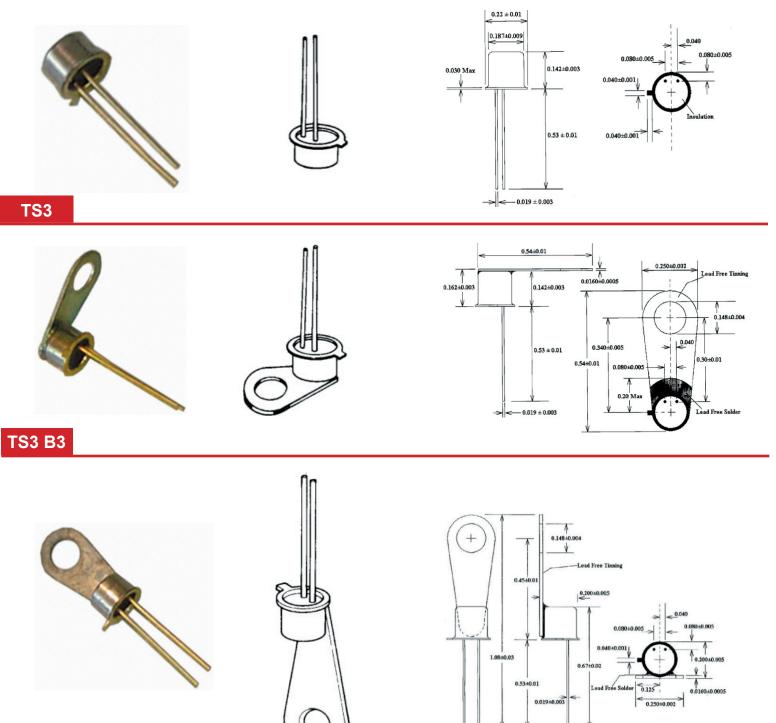
Thermal Sensors MOXIE (NTC) are a family of variable resistance thermal sensors having a highly specific 'transition region.' Within this transition region the devices typically exhibit a negative temperature coefficient ranging from 40% per °C to 200% per °C. Below the transition region they exhibit a linear "thermistor" characteristic of -2 to -4%/°C.

Applications: Sensors for temperature protection, control and limiting. Voltage, current and frequency limiters in electronics.



Examples: Overtemperature protector for power semi-conductors, such as transistors, power output stages, amplifiers.

Dimensions (mm)



Specifications

Туре	Parameter	Temp, (°C)	Condition	Min.	Тур.	Max.	Units
TS3-57	Resistance	35	Heating	35	85	230	kΩ
	Resistance	57	Heating		1.0		kΩ
	Resistance	75	Heating	15	45	100	Ω
	Sensitivity ¹	57	Heating	40	100		% / °C
	Latching Current 2	—	D.C. Volts	0.6	1.8	3.2	mA
TS3-60	Resistance	35	Heating	50	130	350	kΩ
	Resistance	60	Heating		5.0		kΩ
	Resistance	75	Heating	15	75	250	Ω
	Sensitivity ¹	60	Heating	40	100		% / °C
	Latching Current 2	—	D.C. Volts	0.6	1.6	2.8	mA
TS3-65	Resistance	40	Heating	120	620	1700	kΩ
	Resistance	65	Heating		5.0		kΩ
	Resistance	80	Heating	10	50	100	Ω
	Sensitivity ¹	65	Heating	80	200		% / °C
	Latching Current 2	_	D.C. Volts	0.14	0.33	0.52	mA
TS3-75	Resistance	55	Heating	40	80	300	kΩ
	Resistance	75	Heating		3.0		kΩ
	Resistance	95	Heating	20	115	200	Ω
	Sensitivity ¹	75	Heating	50	70		% / °C
	Latching Current 2	—	D.C. Volts	0.7	1.9	3.1	mA
TS3-85	Resistance	65	Heating	25	45	180	kΩ
	Resistance	85	Heating		1.5		kΩ
	Resistance	100	Heating	75	150	330	Ω
	Sensitivity ¹	85	Heating	30	40		% / °C
	Latching Current 2	_	D.C. Volts	1.4	2.0	2.6	mA

1 Sensitivity is defined as the percentage of resistance change per variation of 1°C in temperature.

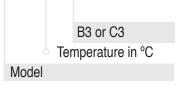
2 Latching current is the smallest current that will cause the device to make changes in resistance while it's cooling to a lower temp.

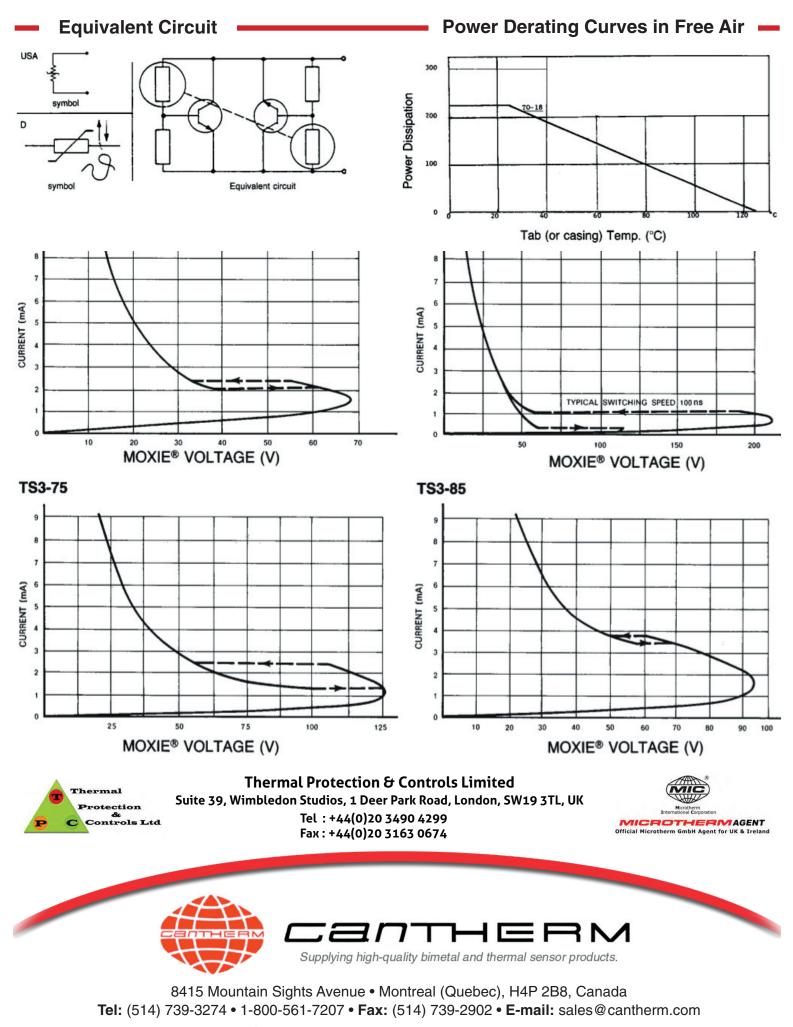
Typical Characteristics	TS3-XX	тѕз-ххвз	
Thermal Resistance(°C/W)			
- Die to tab (or casing)	250	300	
- Tab (or case) to air	200	200	
Time Constant (sec)			
- Air to tab (or casing)	60	60	
- Tab (or case) to die	2.0	2.5	
Shunt Capacitance (pF)			
- Lead to lead	0.5	0.5	
- Lead to tab (or casing)	0.2	0.2	
Dialectric Withstanding (V dc)			
- Lead to tab (or casing)	600	600	
Storage Temp. (°C)	120	120	
Solder Temp.			
(1/16" from case, 10 sec)	260	260	

Typical Response Characteristics	TS3-57	т	TS3-65	TS3-75	TS3-85
Temp.Coef. (%/°C)					
Pre-Transition	-2.0	-2.5	-4.0	-3.5	-3.0
Transition	-100	-100	-200	-70	-40
Post-Transition	-0.25	-0.25	-0.5	-1.0	-1.5

Ordering







Website: www.cantherm.com | Division of Microtherm

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for microtherm manufacturer:

Other Similar products are found below :

 T11A07005U112L310100
 05N1034(80/M)
 52N12T944(200/160)
 A130 05EN4172
 B12A16005U112L370100
 B12A18010U253L370100

 05N1034(90/M)
 T11A15005U112L310100
 05N1034(65/M)
 55H12T944(250/200)
 B12A12505U112L310100
 52N12T044(225/175)

 T11A11005U112L310100
 T11A10005U112L310100
 03EN151044(50/35)
 05N1034(55/M)