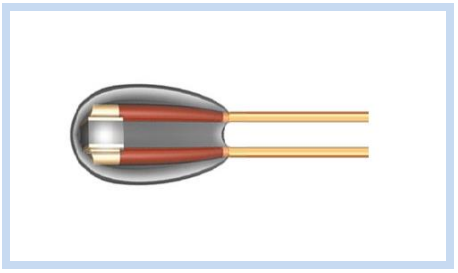
NTC Thermistor
Glass Encapsulated Type

NTG Series

MERITEK

FEATURE

- Temperature Sensing/Compensation
- Glass-Encapsulated and Heat Resistive
- Applications: Home Appliances, Automotive Electronics
- UL Safety Approved: Certification No: E223027



RoHS

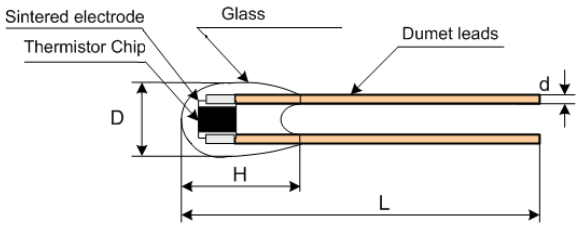
ELECTRICAL CHARACTERISTICS

Part No.	Zero Power Resistance	B Value	Max. Power Dissipation at 25°C	Dissipation Factor δ	Thermal Time Constant
	(Ω)	(K)	(mW)	(mW/°C)	(Sec.)
NTGB332G397H	R100=3.30K±2%	B0/100 3970±3%	7	Approx. 1.4	Approx. 14
NTGB332H397H	R100=3.30K±3%				
NTGB332J397H	R100=3.30K±5%				
NTGB503G397H	R25=50K±2%				
NTGB503H397H	R25=50K±3%				
NTGB503J397H	R25=50K±5%				
NTGC551G430H	R200=0.55K±2%	B100/200 4300±3%	7	Approx. 1.4	Approx. 14
NTGC551H430H	R200=0.55K±3%				
NTGC551J430H	R200=0.55K±5%				
NTGC104G430H	R25=100K±2%				
NTGC104H430H	R25=100K±3%				
NTGC104J430H	R25=100K±5%				
NTGA103G39HA	R25=10K±2%	B25/85 3975±1.5%	7	Approx. 1.4	Approx. 14
NTGA103H39HA	R25=10K±3%				
NTGA103J39HA	R25=10K±5%				

Note:
1. Operating Temperature: -40°C~+250°C
2. Special Specifications are available upon request, 2. Tolerance Code: G:±2%, H:±3%, J:±5%

DIMENSIONS

Series	Value (mm)
D	2.5±0.2
H	3.8±0.5
L	≥40
d	0.30±0.02



PART NUMBERING SYSTEM

NTG (1) A (2) 332 (3) G (4) 397 (5) H (6)

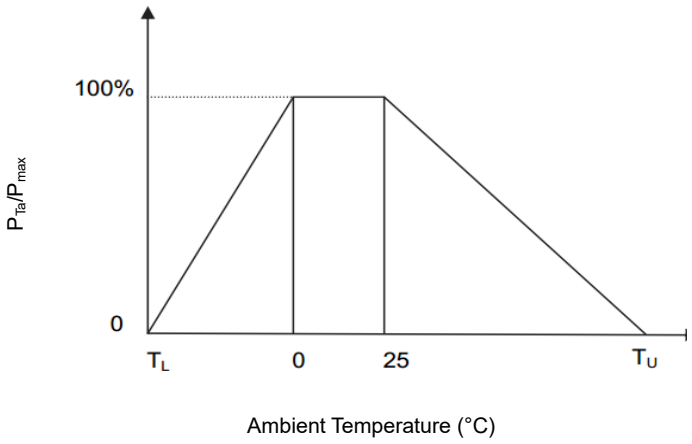
No	Item	Code	Description	
(1)	**Meritek Series**	NTG	Thermistor Series, Glass Encapsulated, Φ2.5 mm Type	
(2)	**B Value Type**	A	A: B25/85	B: B0/100, C :B100/200
(3)	**Zero Power Resistance**	332G	332: 3.3KΩ ±2% (G)	First two digits: significant, Third: Multiplier
(4)	**B Value**	397H	397: 3970 ±3% (H)	39H: 3975, 430: 4300

RELIABILITY TEST CONDITON AND REQUIREMENT

Item	Standard	Test conditions / Methods	Specifications
High Temperature Storage	IEC 60068-2-2	Tu ± 5°C, 1000 ± 24 hrs	No visible damage $\|\triangle R_{25}/R_{25}\| \leqq 5\ \%$
Damp Heat, Steady State	IEC 60068-2-78	40 ± 2°C, 90~95% RH, 1000 ± 24 hrs	No visible damage $\|\triangle R_{25}/R_{25}\| \leqq 3\ \%$
Rapid Change of Temperature	IEC 60068-2-14	The conditions shown below shall be repeated 5 cycles. Step 1: TL±5, 30±3 Step 2: Room Temperature, 5±3 Step 3: TU±5, 30±3 Step 4: Room Temperature, 5±3	No visible damage $\|\triangle R_{25}/R_{25}\| \leqq 3\ \%$
Max. Power Dissipation	IEC 60539-1 4.26.3	25 ± 5°C, Pmax. X 1000 ± 24 hrs	No visible damage $\|\triangle R_{25}/R_{25}\| \leqq 5\ \%$

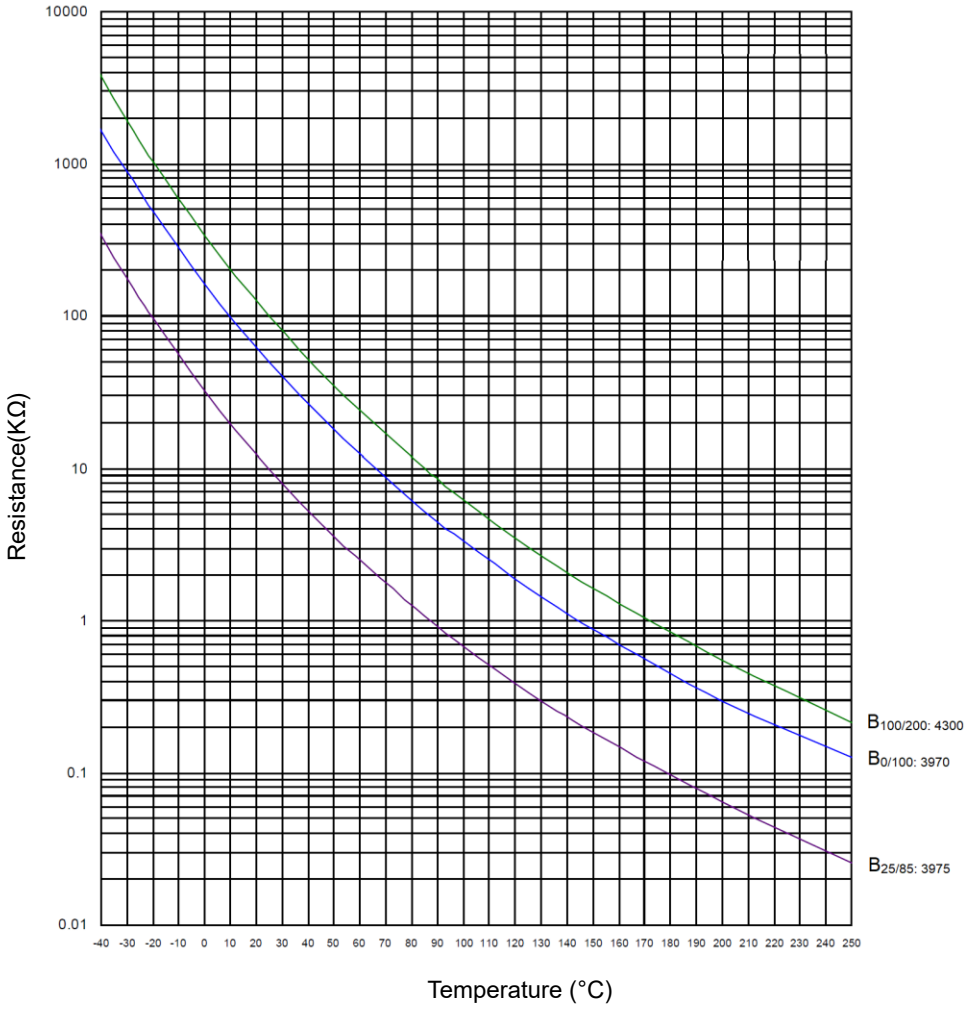
MAX POWER DISSIPATION DERATING CURVE

Power Derating Curve



Item	Description
T_U	Maximum Operating Temperature (ºC)
T_L	Minimum Operating Temperature (ºC)
Example	Ambient Temperature (T_a) = 60ºC Max Operating Temperature (T_U) = 200ºC $P_{TA} = (T_U-T_a) / (T_U-25) \times P_{max} = 80\%\ P_{max}$

R-T CHARACTERISTIC CURVES



*Specifications subject to change without notice.