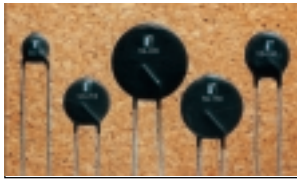


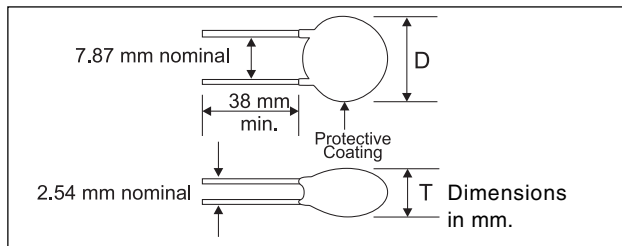
## Inrush Current Limiters 'Surge Gard' Series



Surge currents which occur when electrical circuits are switched on can cause serious damage to sensitive electronic components which may exceed their rated values unless the surge is controlled. Damaging surges may be prevented by using

Surge-Gard™ inrush current limiters placed in critical parts of the circuit. Surge-Gards™ are a type of power NTC thermistor manufactured from a specially formulated metal oxide ceramic material which is capable of suppressing high inrush current surges. Connected in series with the load, at switch-on, the thermistor limits the current due to its relatively high cold resistance. As a result of current flow the thermistor heats reducing its resistance value so that once the initial surge has been safely held-off the resistance in the circuit is held at a low value to maximise efficiency. They are constantly used in:

- Power Supplies
- Electric Motors
- Lighting Circuits
- Thermostat Protection
- Any circuit subject to switch-on current surges



PART NO.	"D" (Diameter max over coating) (mm) Max.	"T" (Thickness max over coating) (mm) Max.	"L" Lead Diameter ±0.08 mm
SG22	7.62	7.62	0.81
SG15	15.24	6.35	0.81
SG408	10.79	5.08	0.5
SG37	12.70	7.62	1.02
SG230	12.70	6.35	0.81
SG180	15.24	6.35	0.81
SG240	15.88	6.35	0.81
SG220	11.43	7.62	0.81
SG250	23.50	6.35	1.02
SG39	12.70	8.90	1.02
SG190	15.24	6.35	0.81
SG210	15.24	7.62	1.02
SG63	19.05	6.35	1.02
SG42	12.70	8.90	1.02
SG27	15.24	8.90	1.02
SG130	15.24	6.35	0.81
SG200	15.24	6.35	0.81
SG40	22.86	8.90	1.02
SG170	15.24	6.35	1.02
SG140	15.24	6.35	0.81
SG64	24.13	7.0	1.02
SG150	22.86	6.35	1.02
SG26	22.86	7.0	1.02
SG32	22.86	8.90	1.02
SG160	22.86	7.62	1.02
SG110	22.86	8.90	1.02
SG100	22.86	7.62	1.02
SG420	31.75	7.62	1.02
SG260	31.75	5.08	1.02
SG405	31.75	6.35	1.02

PART NO.	Order Code	I <sub>max</sub> Max Steady State Current (AMPS)	Resistance (OHMS) 25°C	Resistance Tolerance (±%)	R <sub>lmax</sub> Resistance Max Current (OHMS)	V <sub>max</sub> Voltage Rating	J <sub>max</sub> Energy Rating (JOULES)
SG22	K3H81HZ	0.3	1000	10	7.0	120	14
SG15	K3H81HK	1.0	50	15	0.6	265	20
SG408	K3H82HZ	1.0	10	20	0.7	265	15
SG37	K3H81PH	1.5	250	15	0.6	265	15
SG230	K3H82AA	1.75	200	15	0.6	265	31
SG180	K3H81YT	2.0	50	15	0.4	265	36
SG240	K3H82AL	2.0	400	15	0.6	265	20
SG220	K3H81ZX	3.0	100	15	0.2	265	17
SG250	K3H82AF	3.0	1200	15	0.9	265	36
SG39	K3H81PY	4.0	120	10	0.22	265	40
SG190	K3H81YZ	4.0	50	15	0.15	265	36
SG210	K3H81ZQ	4.0	70	15	0.2	265	50
SG63	K3H81RZ	4.0	16	25	0.25	265	50
SG42	K3H81RL	5.0	100	15	0.2	265	44
SG27	K3H81KT	6.0	100	15	0.15	265	40
SG130	K3H81XL	7.0	25	15	0.05	265	27
SG200	K3H81ZK	7.0	50	15	0.07	265	40
SG40	K3H81QR	8.0	100	20	0.1	265	50
SG170	K3H81YP	8.0	40	15	0.07	265	27
SG140	K3H81XR	9.0	25	15	0.04	265	27
SG64	K3H81TA	10.0	70	15	0.08	265	100
SG150	K3H81XY	10.0	25	15	0.04	265	87
SG26	K3H81HL	12.0	50	15	0.66	265	100
SG32	K3H81LP	14.0	40	20	0.05	265	100
SG160	K3H81YH	15.0	25	15	0.03	265	87
SG110	K3H81XA	18.0	20	15	0.03	265	80
SG100	K3H81TX	20.0	10	15	0.015	120	48
SG420	K3H82KL	23.0	20	25	0.025	265	250
SG260	K3H82AY	30.0	0.5	20	0.01	120	31
SG405	K3H82HR	30.0	1.0	25	0.015	265	157

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