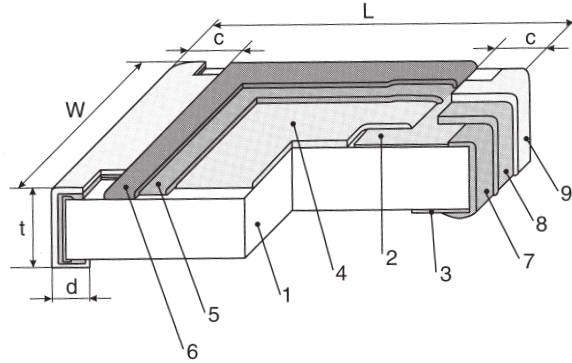
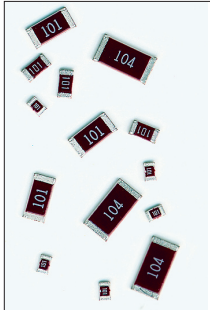


**FLAT CHIP  
SURGE CURRENT  
ANTI SULFURATION  
SG73 RT**



**STRUCTURE**

- 1 Ceramic substrate
- 2 Top termination
- 3 Bottom termination
- 4 Resistive layer
- 5 Glass layer
- 6 Protective layer
- 7 End termination
- 8 Diffusion barrier (Ni)
- 9 Solder plating

**IDENTIFICATION**

PRODUCT CODE	COATING COLOR	MARKING
SG73	Wine red	White, 3 digits

All these products have Pb-free terminations and meet EU-RoHS requirements

**TYPE DESIGNATION (HOW TO ORDER)**

SG73	2A	RT	TD	103	K	Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS
PRODUCT CODE SG73	STYLE 1J...W3A	TERMINATION SURFACE MATERIAL RT: Sn	TAPING* TP, TD, TE, BK <small>*Please see "PACKAGING"</small>	NOMINAL RESISTANCE 3 digits	TOLERANCE K: (±10%) M: (±20%)	

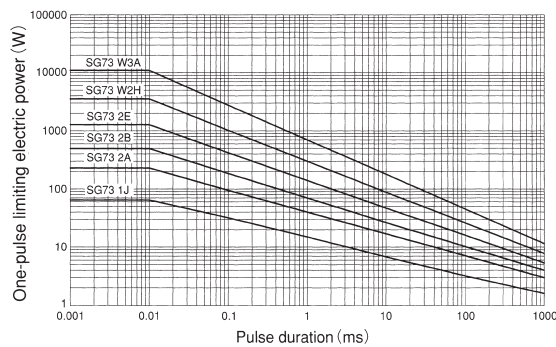
**FEATURES**

- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode
- Anti-leaching nickel barrier terminations
- Superior to chip resistor of RK73 series in surge withstanding voltage and pulse withstanding voltage
- Ideal for use in E.C.U.'s and in circuits to catch inductive lightning surge
- Suitable for use in car electronics, power supplies, industrial robots, etc.
- Rated ambient temperature: +70° C
- Operating temperature range: -55° C ... +155° C
- Meets or exceeds IEC 60 115-8, JIS C 5201-8, EIAJ RC-2134B
- Suitable for reflow and wave soldering

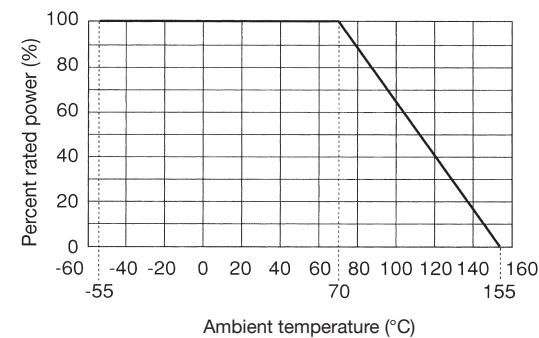
**DIMENSIONS (mm)**

SIZE	TYPE	L ±0.2	W	c	d	t ±0.1
0603	SG73 1J	1.6	0.8 ± 0.1	0.3 ± 0.1	0.3 ± 0.1	0.45
0805	SG73 2A	2.0	1.25 ± 0.1	0.4 ± 0.2	0.3 <sup>+0.2</sup> <sub>-0.1</sub>	0.5
1206	SG73 2B	3.2	1.6 ± 0.2	0.5 ± 0.3	0.4 <sup>+0.2</sup> <sub>-0.1</sub>	0.6
1210	SG73 2E	3.2	2.6 ± 0.2			
2010	SG73 W2H	5.0	2.5 ± 0.2		0.65 ± 0.15	
2512	SG73 W3A	6.3	3.1 ± 0.2			

**ONE-PULSE LIMITING ELECTRIC POWER**



**DERATING CURVE**



**RATING**

SIZE	TYPE	T.C.R. (ppm/K)	POWER* RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	RESISTANCE RANGE	
						K (± 10%) E12	M (± 20%) E12
0603	SG73 1J RT	± 400 ± 200	0.1 W	50 V	100 V	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ
0805	SG73 2A RT	± 400 ± 200	0.125 W	150 V	200 V	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ
1206	SG73 2B RT	± 400 ± 200	0.25 W	200 V	400 V	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ
1210	SG73 2E RT	± 400 ± 200	0.33 W			1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ
2010	SG73 W2H RT	± 400 ± 200	0.75 W			1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ
2512	SG73 W3A RT	± 400 ± 200	1 W			1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ	1 Ω ... 8.2 Ω 10 Ω ... 1 MΩ

Rated voltage = √Power rating x resistance value or max. working voltage, whichever is lower.

\* For resistors operated in ambient temperature over +70°C, power rating shall be derated like shown in above „DERATING CURVE“.

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order or use.