Metal Glaze Molded Resistors High Voltage Anti Sulfidation

Rated	Rated Resistance Working Working				Dimensions (mm)				
Power	Range	Voltage DC	Voltage RMS	W ±0.3	L ±0.3	F ±0.3	H ±0.3	B Max	S ±0.3
1W	100K~10MΩ	1600V	1150V	4.0	6.7	1.4	3.55	7.9	1.5
2W	100K~10MΩ	3500V	2500V	5.5	10.5	1.7	5.00	12.0	2.3
3W	100K~10MΩ	5000V	3500V	7.3	13.5	1.7	6.80	17.0	2.5
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Notes:

1. Rated Continuous Working Voltage (RCWV) = $\sqrt{Power. Rating * Resistance. Value}$, or Max Permissible Voltage, Whichever less

2. Too low or too high ohmic values can be supplied only case by case

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3. Operating Temperature: -65 °C~200 °C



MSMG	3W	332	J
(1)	(2)	(3)	(4)

No	Item	Code	Description		
(1)	Product Code	MSMG	Metal Glaze Molded Resistor, Surface Mount type		
(2)	Power Rating	3W	3W	1W, 2W	
(3)	Resistance	332	3300Ω	First two digits: Significant, Third: Multiplier	
(4)	Tolerance	J	±5%	F: ±1%	

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FEATURE

- Metal-Glaze Elements Provide High Stable Performance .
- Ultra High Surge Withstand and Pulse Withstanding .
- **Excellent Mechanical Strength and Electrical Stability**
- Flameproof Classification: UL94-V0
- 1.2/50µS and 10/700 µS Pulse according to IEC61000-4-5 Standard

ELECTRICAL CHARACTERISTICS AND DIMENSIONS

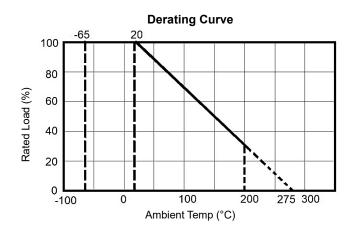
MERITEK

MSMG Series





DERATING AND SURFACE TEMPERATURE RISE CURVE



(0) (0) (180) (180) (120)

Surface Temperature Rise

RELIABILITY TEST CONDITION AND REQUIREMENT

Item	Condition	Requirement	
Resistance Tolerance	J: ±5%, F: ±1%		
Temperature Coefficient (TCR)	-65°C~200°C	±200ppm/ºC	
Power Rating Load	Rated voltage for 30 minutes	∆R/R≤ ±1%, Surface temp. 275°C Max	
Short Time Overload	2.5 times rated power for 5 seconds	±1%	
Dielectric Withstanding Voltage	1000VAC for 1 minute	No evidence of mechanical damage or	
Insulation Resistance	500VDC megger	10,000ΜΩ	
Solderability	235 ±5°C for 2 seconds	95% minimum coverage	
Pulse Loading Capability	IEC 60065 14.1	ΔR/R≤ ±2%	
Resistance to Soldering Heat	270 ±5°C for 10±1 second	Δ R/R≤ ±1% ,	
Temperature Cycle	-65°C(30min), Room Temp.(3min), 275⁰C(30min), Room Temp.(3min) 5 Cycles	∆R/R≤ ±2%	
Load Life	Rated power load 90min ON, 30min OFF 70°C for 1000 hours	∆R/R≤ ±5%	
Load Life in Humidity	Rated power load 90min ON, 30min OFF 40°C, 95% R.H. for 1000 hours	Δ R/ R≤ ±5%	

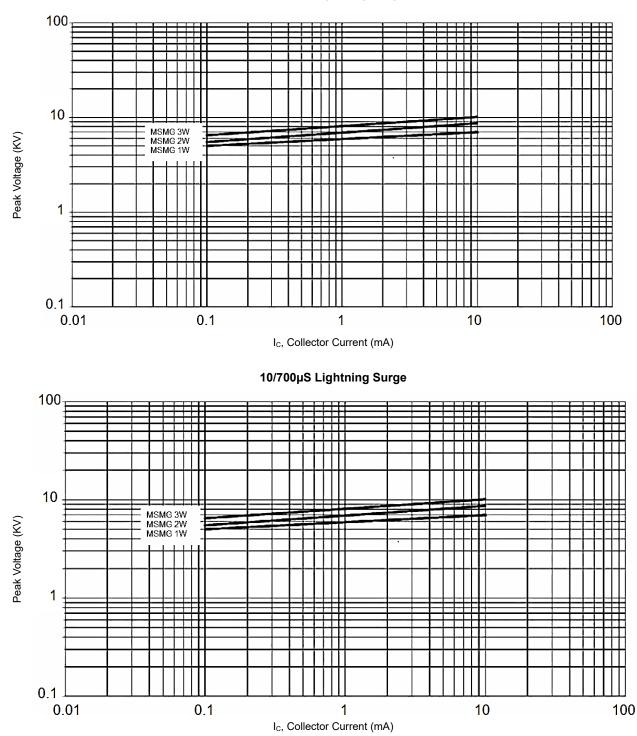
Notes: Reference Standard: IEC 60115-1, JIS C 5201-1

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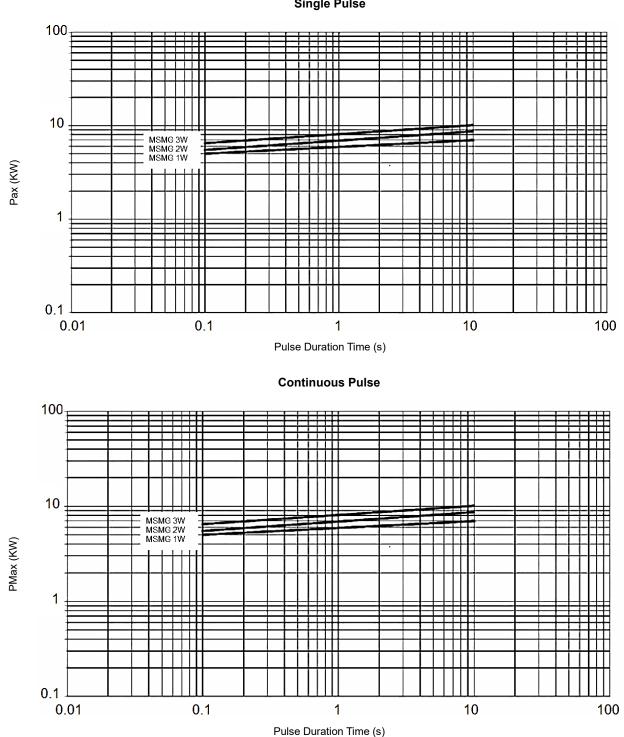
CHARACTERSTICS CURVES



1.2/50µS Lightning Surge

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CHARACTERSTICS CURVES



Single Pulse