

Spark Gap Protectors

Features

- Small Size Design 3.6*Φ2.6mm
- Voltage range: 140V-400V
- Current Handling Capability: 500A@8/20μs
- Low Capacitance and insertion loss
- Fast Response and long service life
- Pb-free (RoHS compliant) package
- Moisture sensitivity level: Level 1



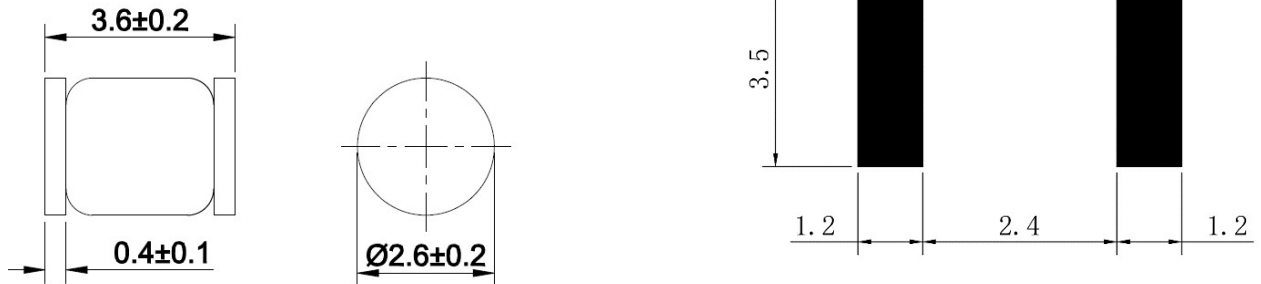
Application

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection
- Broadband equipment
- ADSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

Electrical Characteristics

Catalog Number	DC Spark-Over voltage 100V/S	Impulse Spark-Over voltage 1KV/μs	Nom impulse discharge current 8/20±5T (60S)	Insulation Resistance(DC)	Capacitance 1MHZ<6V
KWGSMD36-141	140±30% V	650V	0.5KA	50V >100MΩ	<1.0pF
KWGSMD36-201	200±35% V	700V	0.5KA	100V >100MΩ	<1.0pF
KWGSMD36-301	300±30% V	900V	0.5KA	100V >100MΩ	<1.0pF
KWGSMD36-401	400±20% V	1000V	0.5KA	100V >100MΩ	<1.0pF

Package outlineSoldering pad(mm)

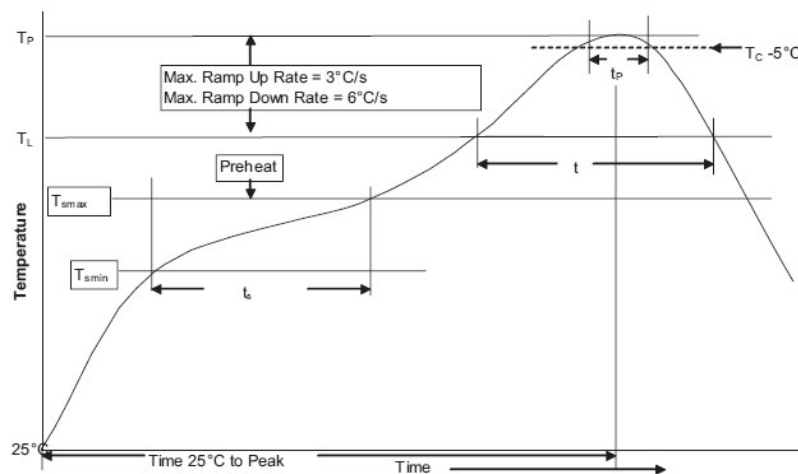


Note: Print solder in thickness of 0.15mm to 0.20mm

Soldering method

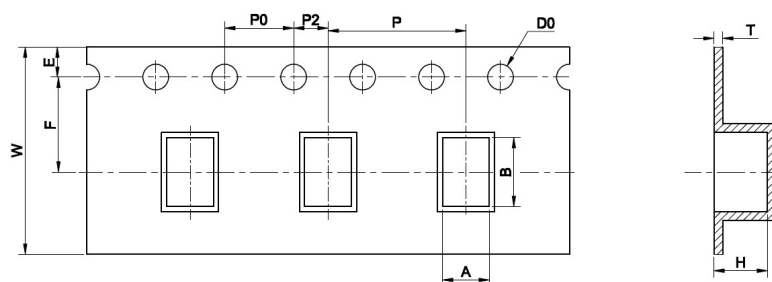
- W solder reflow
 - Reservoir temperature: 260°C
 - Time in reservoir: 10 seconds maximum
- Manual Soldering (not recommended)
 - Temperature: 260°C
 - Time: 30 seconds maximum

Solder reflow profile



Profile Feature		Lead(Pb) free solder
Preheat and soak	• Temperature min. (T_{smin})	150°C
	• Temperature max. (T_{smax})	200°C
	• Time (T_{smin} to T_{smax}) (t_s)	60 - 120 Seconds
Average ramp up rate T_{smax} to T_p		3°C/ Second Max.
Liquidous temperature (T_L)		217°C
Time at liquidous (t_L)		60 - 150 Seconds
Peak package body temperature (T_p)		260°C
Time (t_p) within 5°C of the specified classification temperature (T_c)		30 Seconds
Average ramp-down rate (T_p to T_{smax})		6°C/ Second Max.
Time (25°C to Peak Temperature)		8 Minutes Max.

Standard Packing



ITEM	Typical
	(mm)
A	12 ± 0.3
B	2.7 ± 0.2
W	4.0 ± 0.2
E	1.75 ± 0.2
F	5.5 ± 0.2
P	8 ± 0.2
P0	4 ± 0.2
P2	2 ± 0.2
D0	1.5 ± 0.1
T	0.5 ± 0.1
H	3.1 ± 0.2

Packaging type	Reel Diameters (mm)	QTY(PCS) Per Reel	QTY(PCS) Per Carton	Carton Size (mm)		
				L	W	H
Taping	330	2500	50000	344	410	350

Note: The relevant parameters of the specification are reference data, please contact the company for details, please provide the latest acknowledgment, the specification is subject to modification without notice.