

Description

The PG8D6x series offers high levels of performance on fast rising transients in the domain of $100V/\mu s$ to $1KV/\mu s$, which are those most likely from induced Lightning disturbances. The PG8D6x series also features ultra low capacitance (typically 1pF or less) and optimised internal geometry which provides low insertion loss at high frequencies, so are ideal for the protection of broadband equipment. These devices are extremely robust and are able to divert a 25,000A pulse without destruction.





Features

- Excellent stability on multiple pulse duty cycle
- Excellent response to fast rising transients.
- Ultra Low Insertion Loss
- 25KA surge capability tested with 8/2ΩS
- Non-Radioactive
- Low capacitance (<1pF)
- Voltage Ranges 75V to 1000V
- RoHS compliant and Lead-free

Applications

- Broadband equipment
- ADSL equipment
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment



(8x6mm)

PG8D6A Series



Electrical Characteristics

Part No.	DC Breakdown in Volts (@100V/s)	Impulse Breakdown in Volts (@1kV/µs)	Insulation Resistance		Capacitance (@1KHz)	Nominal Impulse Discharge Current (@8/20/µs)
		Max.(V)	Min.	DC	Max.	
PG8D6xR075W	75±30%	700		50V	<1.0 pf	10 kA
PG8D6xR090W	90±30%	700		50V	<1.0 pf	
PG8D6xR150W	150±30%	700		50V	<1.0 pf	
PG8D6xR230W	200±20%	800	100ΜΩ	100V	<1.0 pf	(10 operations)
PG8D6xR350W	350±20%	800	1001012	100V	<1.0 pf	25 kA (1 operation minimum)
PG8D6xR470W	470±20%	900		100V	<1.0 pf	
PG8D6xR600W	600±20%	1200		250V	<1.0 pf	
PG8D6xR1000W	1000±20%	1800		250V	<1.0 pf	

^{*}Devices test at ambient temperature of 25 $^{\circ}$ C, Operation temperature -40~125 $^{\circ}$ C

[&]quot;x"Code letter for ptoduct packages

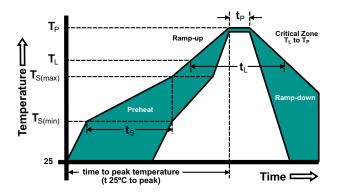


Soldering Parameters - Reflow Soldering

Reflow Condition		Pb – Free assembly	
Pre Heat	-Temperature Min (T _{s(min)})	150°C	
	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 secs	
Average ramp up rate (Liquidus Temp (T _L) to peak		3°C/second max	
$T_{S(max)}$ to T_L - Ramp-up Rate		5°C/second max	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 – 150 seconds	
PeakTemperature (T _p)		260 ^{+0/-5} °C	
Time within 5°C of actual peak Temperature (t _p)		8 - 20 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peakTemperature (T _P)		8 minutes Max.	
Do not exceed		260°C	

Product Characteristics

Materials	Element:Silver or Silver Ceramic Body / End plate Metallization of ceramic body High temperature solder preform End termination overcoat:Nickel Flash,Tin/Lead
Storage and Operational Temperature	-40 to +90 °C

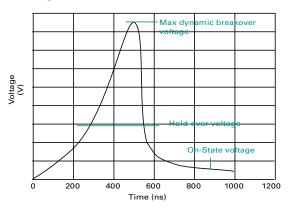


Soldering Parameters - Hand Soldering

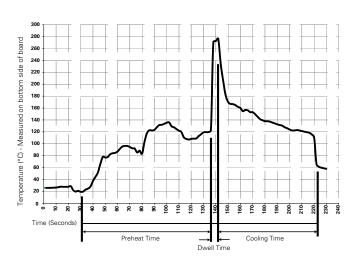
Solder Iron Temperature: 350° C +/- 5° C

Heating Time: 5 seconds max.

Voltage vs. Time Characteristic



Soldering Parameters - Wave Soldering (Thru-Hole Devices)



Recommended Process Parameters:

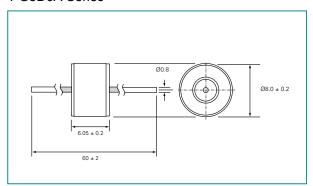
Wave Parameter	Lead-Free Recommendation	
Preheat:		
(Depends on Flux Activation Temperature)	(Typical Industry Recommendation)	
Temperature Minimum:	100° C	
Temperature Maximum:	150° C	
Preheat Time:	60-180 seconds	
Solder Pot Temperature:	280° C Maximum	
Solder DwellTime:	2-5 seconds	

Note: These devices are not recommended for IR or Convection Reflow process.

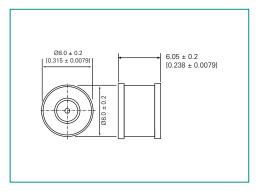


Device Dimensions (Unit/mm)

PG8D6A Series



PG8D6S Series



Packaging (Tape and Reel)

Part Number	Description	Quantity
PG8D6S	1500 Per Reel,6000pcs in box,24000pcs outer box	24000pcs
PG8D6A	100pcs PVC,500pcs in box,5000pcs outer box	5000pcs

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