

GAS DISCHARGE TUBE

DESCRIPTION:



The ALPH3R5150SMD is Gas Discharge Tube (GDT) offers a compact, three-terminal, surface mount component that's just 5mm in diameter. It is rated for 10 hits (± 5 repetitions) of a 5kA 8/20 μ s surge event with a low off-state capacitance of 1pF. Its low arc voltage parameter of 10V reduces thermal accumulation during long-term power fault events.

ALPH3R5150SMD can be used in Telecommunication, Industrial / Commercial / Consumer electronics.

FEATURES:

- 5mm diameter size
- Low insertion loss
- Fast response time
- Single component balanced protector (T-grd & R-grd)
- High current rating
- Stable performance over lifetime
- Lead-free and RoHS compliant
- UL Recognized

APPLICATIONS:

- Data lines
- Broadband interfaces such as ADSL2/VDSL2
- xDSL equipment
- Satellite and CATV equipment
- General telecom equipment
- Industrial automation
- Home gateway

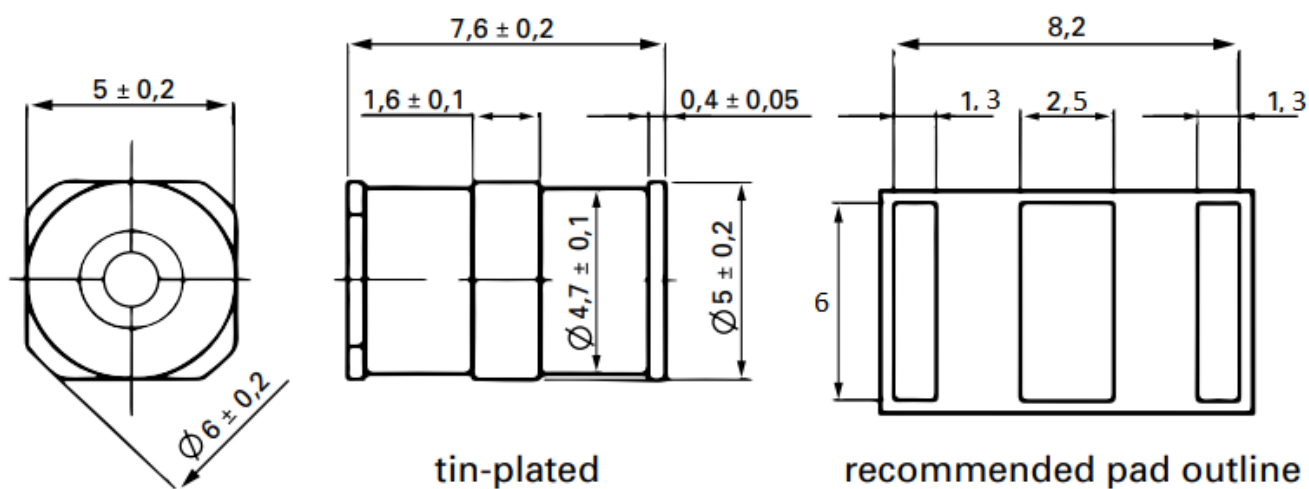
TYPICAL DEVICE CHARACTERISTICS

ELECTRICAL CHARACTERISTICS			
PART NUMBER	PARAMETER	VALUES	UNIT
ALPH3R5150SMD	Nominal Dc spark-over voltage @ 100V/S*# [◊]	150 ± 25%	V
	Maximum impulse spark-over voltage @ 1000V/μs [◊]	500	V
	Maximum discharge current 8/20μs [□]	10	KA
	Impulse discharge current 8/20μs, 10 times [□]	5	KA
	Nominal alternating discharge current (50Hz, 1s,5times) [□]	5	A
	Minimum insulation resistance @ 100V [◊]	10000	MΩ
	Maximum capacitance @ 1MHz [◊]	1	pF
	Weight	~ 1	g
	Operation and storage temperature	-40 ... +90	°C
	Climatic category (IEC 60068-1)	40/90/21	
NOTE: * - At delivery AQL 0.65 level II Military Standard 105E. # - In ionized mode. ◊ - Tip or Ring electrode to center electrode □ - Total current through center electrode, half value through tip respectively ring electrode.			

PACKAGE INFORMATION

DIMENSION: Millimetre (mm)

MARKING: Green (Color), 3R 150 YY (150 - Nominal Voltage, YY - Year of Production)





beyond boundaries...

ALPH3R5150SMD

CUSTOMER NOTE:

DISCLAIMER

The product information and the selection guide facilitates the selection of the ALPINESEMI™'s Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review the Data sheet(s) so as to confirm that the Device(s) meets functionality parameters for your application. The information furnished on the Data Sheet and the ALPINESEMI™'s Web Site is believed to be accurate and reliable at the time of preparation of this document. ALPINESEMI™ however, does not assume any inaccuracies that may arise when the components are mounted and removed. Furthermore, ALPINESEMI™ does not assume liability whatsoever, arising out of the application or the use of any of ALPINESEMI™'s product(s). Neither, does it convey any license under its patent rights nor the rights of others. These products are not guaranteed for use in life saving/support appliances or systems. ALPINESEMI™'s customers using these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and ALPINESEMI™ will not be responsible in any way(s) for any damage(s) resulting from such use.

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Component Disposal Instructions

1. ALPINESEMI™ Semiconductor Devices are RoHS compliant and hence customers are requested to dispose as per the prevailing Environmental Legislation put forth in their specific country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).



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