

## Features

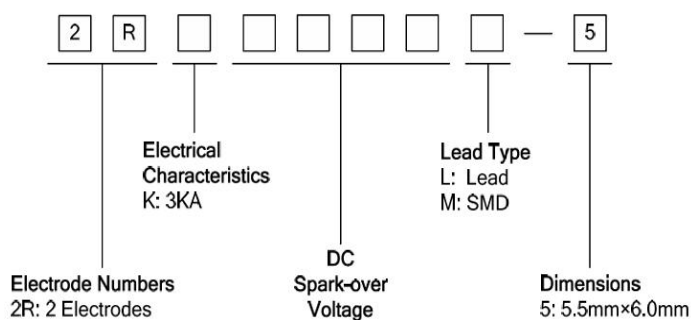
- ◆ Stable breakdown voltage
- ◆ High insulation resistance
- ◆ Low capacitance ( $\leq 1.5\text{pF}$ )
- ◆ Stable performance over life
- ◆ Large absorbing transient current capability
- ◆ Fast response time
- ◆ RoHS compliant
- ◆ Storage and operational temperature:  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- ◆ Meets MSL level 1, per J-STD-020



## Applications

- ◆ Repeaters, Modems
- ◆ Subscriber protection
- ◆ Telephone Interface, Line cards.
- ◆ Data communication equipment.
- ◆ Line test equipment
- ◆ Branch exchange
- ◆ Subscriber protection
- ◆ Alarm system
- ◆ Tuner
- ◆ Antenna protection

## Part Number Coding System

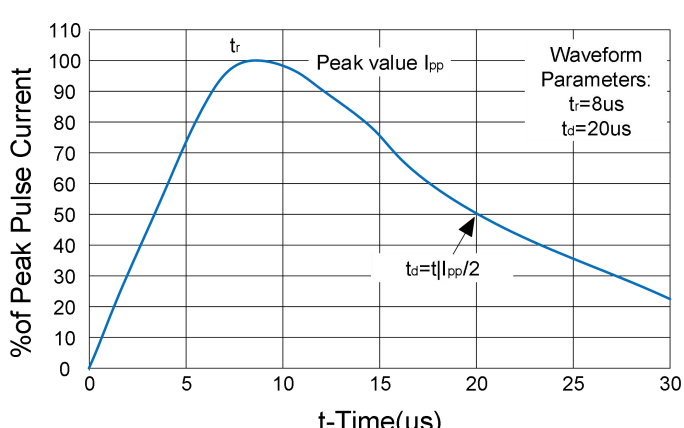


## Dimensions

Ref.	Millimeters	
	Min	Max
D	5.2	5.8
T	5.7	6.3
d	0.7	0.9
L	-	30

## Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Part Number	DC Spark-over Voltage(V)	Maximum Impulse Spark-over Voltage(V)	Nominal Impulse Discharge Current (KA)	Alternating Discharge Current(A)	Minimum Insulation Resistance		Maximum Capacitance (PF)
	100V/s	1000V/ $\mu\text{s}$	8/20 $\mu\text{s}$ $\pm 5\text{times}$	50Hz, 1sec	Test Voltage	M $\Omega$	1MHz
2RK3000L-5	$3000 \pm 20\%$	4200	3.0	AC1500	1000	1000	1.5

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp $dv/dt=100\text{V/s}$ .	To meet specified value
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp $dv/dt=1000\text{V}/\mu\text{s}$ .	
Impulse Discharge Current	<p>Maximum 8/20 <math>\mu\text{s}</math> surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time.</p>  <p>Waveform Parameters: <math>t_r=8\mu\text{s}</math> <math>t_d=20\mu\text{s}</math></p>	
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min.	
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.	
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	

Wave Soldering Parameters

