



Switching Spark Gap

2RK-8 Series



Specifications are subject to change without notice.

Please refer to http://www.ruilon.com.cn for current information.



The 2RK-8 series is a two-terminal, bi-directional, voltage triggered switch, specifically for ignition circuits used in high pressure HID lighting. The gas plasma trigger technology offers very fast switch speeds with improved di/dt values compared to similar function silicon based devices. Switching voltages are fixed depending on the part number selected.

Features

- Extremely long life time
- Non-Radioactive
- RoHS Compliant
- Fast breakdown-time
- Very high switch speed when switch voltage achieved, High di/dt allows for optimum performance of ignition transformers.
- · Long service life

Recommended Applications

- HID Xenon discharge lamps ignite
- Gas stoves
- Detonating devices(EBW)
- Transient Power
- Other electronic ignition circuit



Part Number Code







Electriacl Characteristics

Part Number		DC Spark-over Voltage	200000 times for the first static breakdown voltage in the dark(v)	Number of onoff(ten thousand	Switching frequency	Insulation resistance at 100v DC	Capacitance	Breakdown time
DIP	SMD	(V)	(V)	(times)	(HZ)	(Ω)	(PF)	(NS)
2R150TK-8	2R150SK-8	150±15%	<200	2000000	200	≥10 ⁹	<1.5	50
2R230TK-8	2R230SK-8	230±15%	<270	400000	160	≥10 ⁹	<1.5	50
2R300TK-8	2R300SK-8	300±15%	<355	400000	140	≥10 ⁹	<1.5	50
2R320TK-8	2R320SK-8	320±15%	<380	400000	150	≥10 ⁹	<1.5	50
2R350TK-8	2R350SK-8	350±15%	<415	400000	150	≥10 ⁹	<1.5	50
2R370TK-8	2R370SK-8	370±15%	<440	400000	140	≥10 ⁹	<1.5	50
2R400TK-8	2R400SK-8	400±15%	<475	400000	130	≥10 ⁹	<1.5	50
2R470TK-8	2R470SK-8	470±15%	<570	400000	180	≥10 ⁹	<1.5	50
2R600TK-8	2R600SK-8	600±15%	<720	400000	210	≥10 ⁹	<1.5	50
2R730TK-8	2R730SK-8	730±15%	<900	400000	130	≥10 ⁹	<1.5	50
2R800TK-8	2R800SK-8	800±15%	<1000	400000	100	≥10 ⁹	<1.5	50









DUT device under test ICU ignition control unit (sensitivity 10 .. $30 \,\mu A$) Discharge current 10 – 20 mA

Fig. 2: QC- test circuit (sampling inspection at 25 $^{\circ}$ C)



Fig. 1-1: Explanation of measurands



Fig. 2-2: Explanation of measurands







Warehouse Storage Condition

Item		Requirement			
DC Breakdown Voltage	The voltage r				
Maximum Impulse Breakdown Voltage	The maximur				
Maximum Impulse Discharge Current	The maximur terminals of the terminals of the terminals of the terminals of the terminal mean terminal means the terminal means				
Alternating Discharge Current	Rated RMS v breakdown vo breakdown vo				
Impulse Life	The minimum gas tube will initial measur	To meet the			
DC Holdover Voltage	The maximur be expected t				
	The resistanc	specified value			
		DC Breakdown Voltage (V)	DC Measuring Voltage (V)		
		70	25	_	
Inculation Posistanco		90-150	50		
		230-350	100	_	
		470-600	250		
		800	500	_	
		1000-1600	1000		
Capacitance	The capacital Test frequenc not being test				





Packaging Taping

Axial Packing (Bulk)



SMD Packing (Tape & Reel)







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