



# Gas Discharge Tube (GDT) Data Sheet

#### **Features**

- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/µs.
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance (≤1.0pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 5.5mm\*6.0mm
- Storage and operational temperature: -40℃ ~ +125℃
- Meets MSL level 1, per J-STD-020
- Safety certification: E327997

## **Applications**

- Standard power supplies requisite by US UL1449.
- Highly reliable power supplies.
- Three or two phases industrial or civic machinery equipment power.
- Power supplies for IC or electronic circuits.

#### Part Number Code



# Marking



XXXX : Internal Control Code





## **Dimensions**

	Symbol	Dimension (mm)		
< <u> 11</u> ►	Symbol	Spec.	Tolerance	
	D	5.5	+0.3, -0.5	
	Т	6.0	+0.3, -0.5	
	T1	10.2	±0.5	
	S	7.5	±0.5	
	R	63°	±5°	
	d	0.6	±0.05	
	L	3.5	±0.5	
	L1	2.5	±0.3	

#### **Electrical Characteristics**

Part Type Number ①	Туре	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Impulse Life		
	1	100V/s	100V/µs	1000V/µs	8/20µs 300 times	8/20µs 3 times	8/20µs 1 time
		(V)	(V)	(V)	(A)	(KA)	(KA)
2RK3600L-5	SHRB	3600±20%	4350	4500	100	3	5

AC Withstanding Voltage	Minimum Insulation Resistance		Maximum Capacitance	Arc Voltage	Glow to Arc Transition	Glow	Device
	Test Voltage	(GΩ)	1MHz	@1A	Current	voltage	Marking Code
	DC(V)		(pF)	(V)	(A)	(V)	
1800VAC, 3s	100	1.0	1.0	~45	~0.3	~240	2RK3600-5

Notes: )Specific code by request.

# **Electrical Ratings**

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.	To meet the specified value	
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs.		



#### **Recommended Soldering Conditions**







# Packaging

Skin packing		Dimension (mm)	
	Symbol	Spec.	Tolerance
	А	217.0	±2.0
	В	207.0	±2.0
	Н	10.3	±0.5
H	Quantity: 100pcs		
Inner box	A0	225.0	±2.0
AQ OP		210.0	±2.0
		60.0	±2.0
	Quantity	: 500pcs	