

# Gas Discharge Tube (GDT) Data Sheet

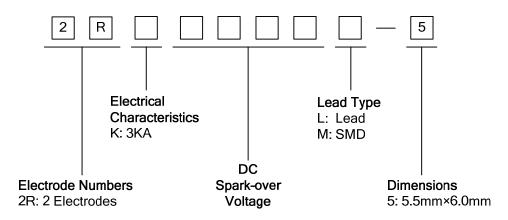
#### **Features**

- 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 (≤1.5pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 5.5mm\*6.0mm
- Storage and operational temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL: 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

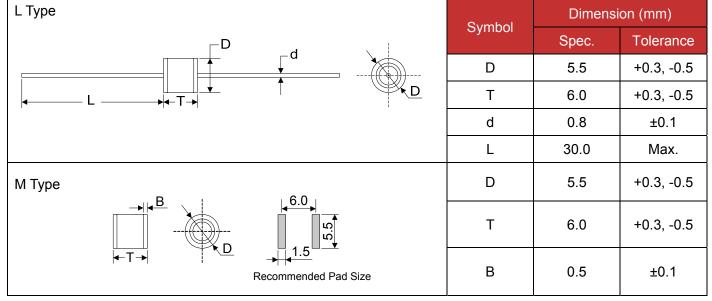
B : BrightKing Logo

2RK3600-5 : Device Marking Code YXXX : Date Code

# B 君耀电子 BrightKing

# 2RK3600L(M)-5

## Dimensions



#### **Electrical Characteristics**

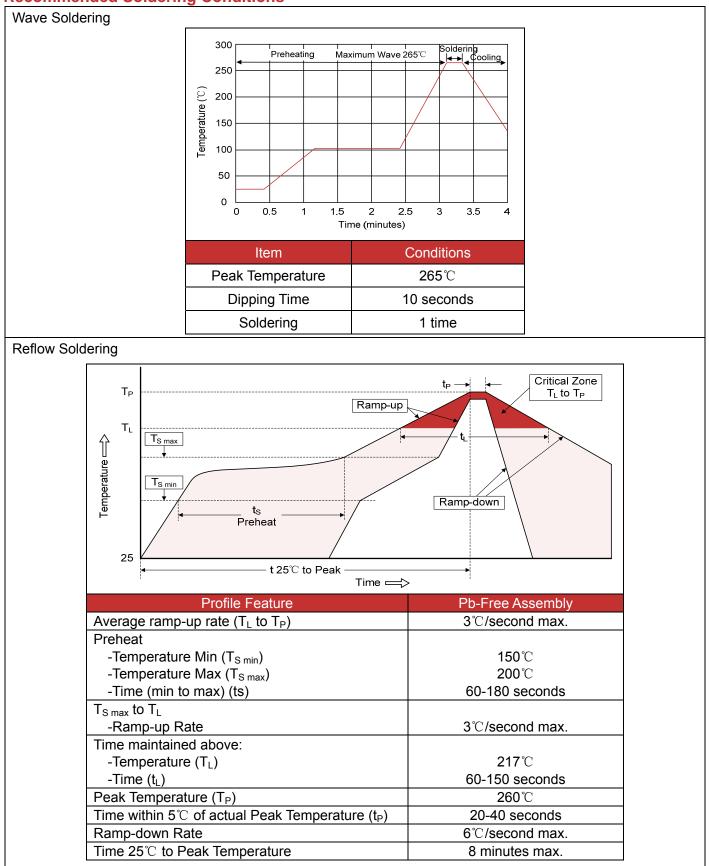
Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance	AC Withstanding	Device
	100V/s	1000V/µs	8/20µs 1time	8/20µs 100A	Test Voltage	(GΩ)	1MHz	Voltage	Marking Code
	(V)	(V)	(KA)	(times)	DC(V)		(pF)		
2RK3600L-5	3600±20%	5000	3.0	300	1000	1.0	1.5	AC1800, 1s	2RK3600-5
2RK3600M-5	3600±20%	5000	3.0	300	1000	1.0	1.5	AC1800, 1s	2RK3600-5

### **Electrical Ratings**

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.	
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/ $\mu s.$	
Impulse Discharge Current	Maximum 8/20µs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time, without causing the DC spark-over voltage to change more than 25% from its initial value.	To meet the specified value

B 君耀电子 BrightKing	2RM	(3600L(M)-5
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	

### **Recommended Soldering Conditions**

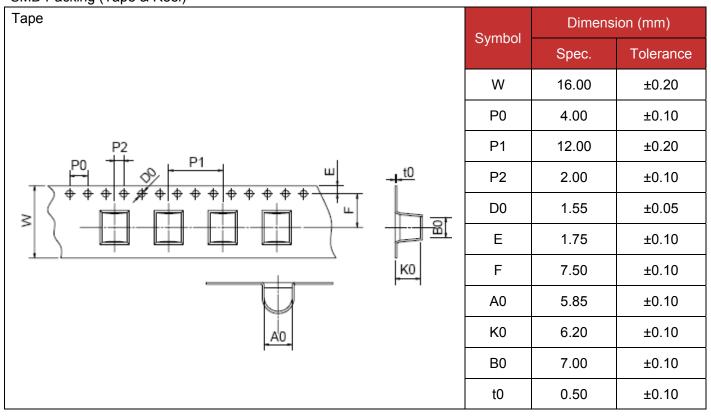


# B 君耀电子 BrightKing Packaging

Skin packing		Symbol	Dimension (mm)		
		Symbol	Spec.	Tolerance	
		А	264.0	±1.0	
		В	145.0	±1.0	
		н	6.5	±0.5	
H <del>‡-⊫≈≘≈≘≈≘≈⊨</del>		Quantity: 100pcs			
Inner box	ner box	A0	270.0	±2.0	
		В0	150.0	±1.0	
	P	H0	50.0	±1.0	
		Quantity:	500pcs		

### Packaging

#### SMD Packing (Tape & Reel)





# 2RK3600L(M)-5

Reel			
-+  <u>+</u>  -	D	330.00	±1.00
	d	13.00	±0.50
	L	20.00	±0.50
	t	2.00	±0.20
	Quantity:	800pcs	

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 820KD20J
 30KPA30A
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