

## LY82R600P Data Sheet

### Features

- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance ( $\leq 1.5\text{pF}$ )
- Large absorbing transient current capability.
- Size: 8.0mm\*6.0mm
- Storage and operating temperature:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Meets MSL level 1, per J-STD-020

### Applications

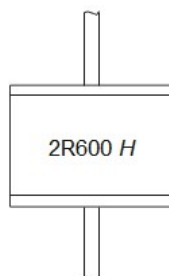
- Repeaters, Modems
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment

### Part Number Code

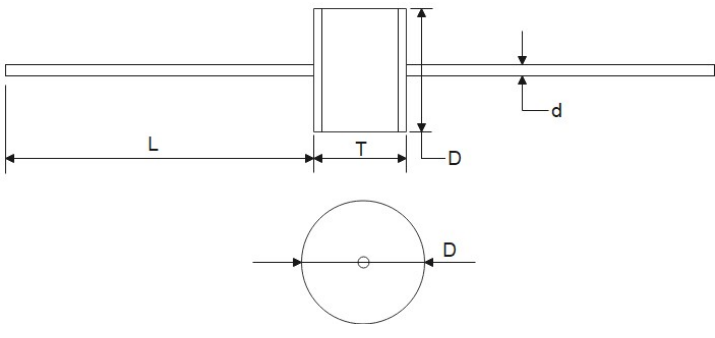
#### **LY82R 600 P**

LY82R: Size Code, LY8 series, Two electrodes  
600: DC Breakdown Voltage=600V@100V/s~2000V/s  
P: Impulse Discharge Current=20KA@8/20 $\mu\text{s}$

### Marking



### Dimensions

Item	Dimensions(mm)	
D	8.0+0.3,-0.5	
T	6.0+0.3,-0.5	
d	0.8±0.05	
L	20.0min.	

### Electrical Characteristics

Model Name	DC Breakdown Voltage	Maximum Impulse Breakdown Voltage		Maximum Impulse Discharge Current	
	100~2000V/s	100V/μs	1000V/μs	8/20μs, 1 time	8/20μs, 10 times
LY82R600P	600V±20%	1100V	1300V	25KA	20KA

Model Name	Alternating Discharge Current		Impulse Life	DC Holdover Voltage	Minimum Insulation Resistance	Maximum Capacitance
	50Hz, 1s	Single 9cycles	10/1000μs, 100A	<150ms	250VDC	1MHz
LY82R600P	20A	65A	500 times	135V	1GΩ	1.5pF

### Packaging (Bulk)

Item	PVC Tray	Inner Box	Carton
Dimensions(mm)	264×145×10	270×145×50	310×280×275
Quantity	100pcs	500pcs	5000pcs

### Electrical Ratings

Items	Test Condition/Description	Requirement
DC Breakdown Voltage	The voltage is measured with a voltage rate of rise between 100V/s to 2000V/s.	To meet the specified value
Maximum Impulse Breakdown Voltage	The maximum impulse breakdown voltage is measured with voltage ramp $dv/dt=1000V/\mu s$ .	
Impulse Discharge Current	8/20 $\mu s$ surge current that can be applied between two electrode, 5 positive and 5 negative surges, with 3 minutes interval time, without causing the DC breakdown voltage to change more than -20%~+30% from its initial measured value.	
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with 3 minutes interval time. DC breakdown voltage shall not change more than -20%~+30% from its initial value.	
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

