

## 2CLG30KV/200mA Product Data

High voltage rectifier diodes 2CLG30KV/200mA Series adopts high reliable mesa structure and diffusion craftwork, epoxy resin molded in a compact structure.

### ■ Feature

- Avalanche characteristic
- More sizes to choose
- Epoxy resin molded in vacuum, have anticorrosion in the surface
- Operating Junction Temperature Tj: -40°C—+150°C

### ■ Application

- General purpose high voltage rectifier, voltage multiplier assembly
- High voltage generator
- High voltage testing equipment

### ■ Maximum Ratings

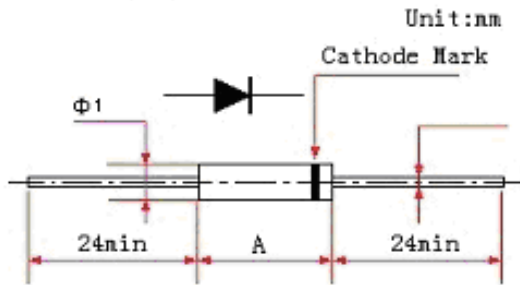
Item	Symbol	Conditions	Data	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	$T_a=25^{\circ}\text{C}$ $I_R=0.02\mu\text{A}$	30	kV
Peak Working Reverse Voltage	$V_{RWM}$	$T_a=25^{\circ}\text{C}$ $I_R=0.02\mu\text{A}$	30	kV
Average Forward Current	$I_{F(AV)}$	(50Hz Half-sine Wave , Resistance load @ $T_{break}=50^{\circ}\text{C}$ )	0.2	A
Reverse Recovery Time	trr	$I_F=2\text{mA}$ $I_R=4\text{mA}$ $I_{RR}=1\text{mA}$	100	nS
Surge Forward Current	$I_{FSM}$	0.01S @ Half-Sine wave 50Hz	10	A
Operating Ambient Temperature	$T_a$		-40~+125	°C
Storage Temperature	$T_{stg}$		-40~+125	°C

### ■ Electrical Characteristics (Ta=25°C Unless Otherwise Specified)

Rated Value	Symbol	Conditions	Data	Unit
Forward Peak Voltage (Reference Value)	V	@ $T_a=25^{\circ}\text{C}$ $I_F=0.2\text{A}$	48	V
Peak Reverse Current (Reference Value)	$I_{R1}$	@ $T_a=25^{\circ}\text{C}$ $V_{RM}=V_{RRM}$	2.0 max	$\mu\text{A}$
	$I_{R2}$	@ $T_a=100^{\circ}\text{C}$ $V_{RM}=V_{RRM}$	50 max	$\mu\text{A}$

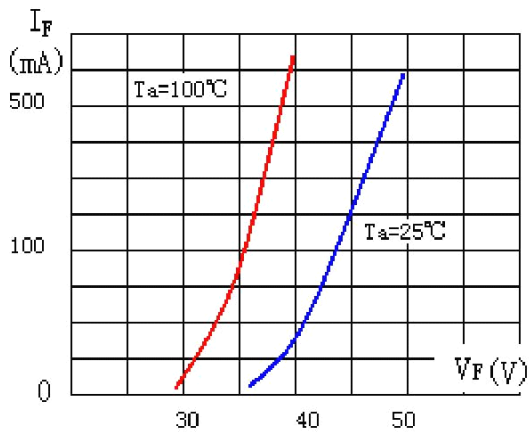
## ■ Dimensions

### ■ OUTLINE DRAWINGS

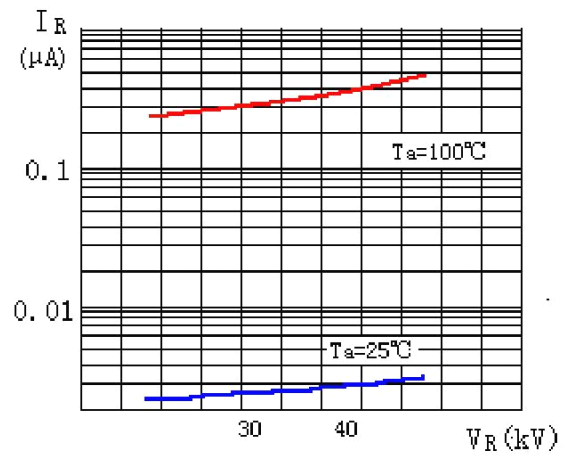


Size	1	2	3	4
A	35	40	60	80
$\Phi 1$	8	8	8	8
$\Phi$ Lead Wire	1.2	1.2	1.2	1.2

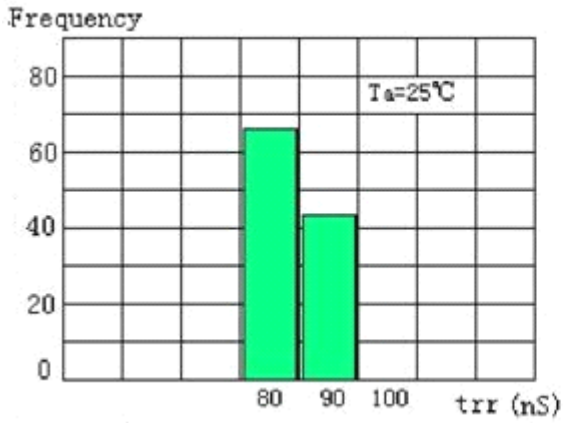
## ■ Characteristic Curve



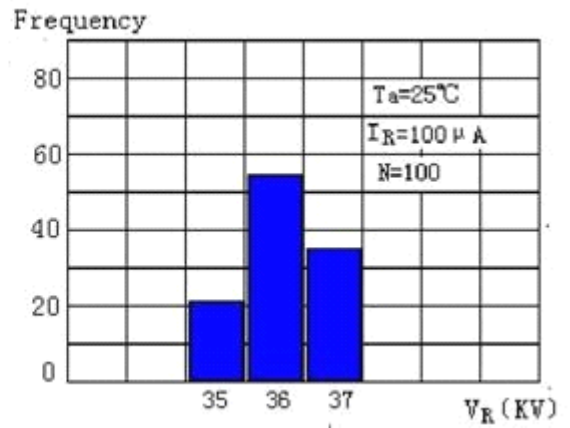
Forward Characteristics



Reverse Characteristics



Reverse Recovery Time Distribution



Avalanche Breakdown Voltage Distribution

**Reverse Recovery Time Basic Test Circuit**

