

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

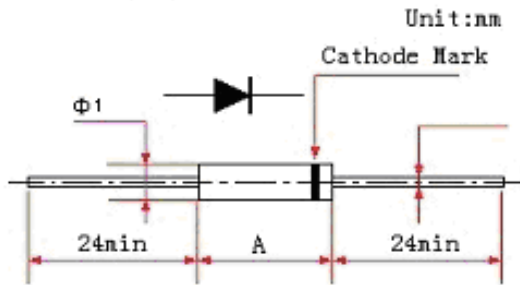
Item	Symbol	Conditions	Data	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	$T_a=25^{\circ}\text{C}$ $I_R=0.02\mu\text{A}$	30	kV
Peak Working Reverse Voltage	V_{RWM}	$T_a=25^{\circ}\text{C}$ $I_R=0.02\mu\text{A}$	30	kV
Average Forward Current	$I_{F(AV)}$	(50Hz Half-sine Wave , Resistance load @ $T_{break}=50^{\circ}\text{C}$)	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	μA
	I_{R2}	@ $T_a=100^{\circ}\text{C}$ $V_{RM}=V_{RRM}$	50 max	μA

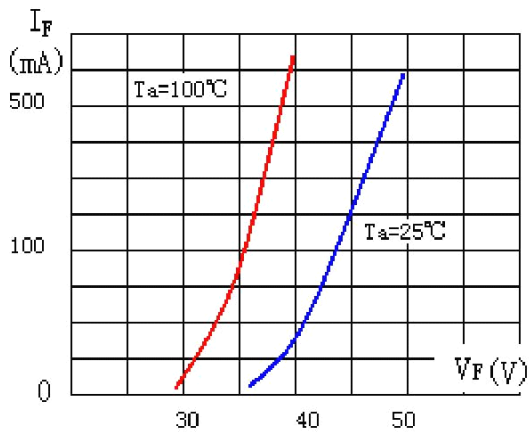
■ Dimensions

■ OUTLINE DRAWINGS

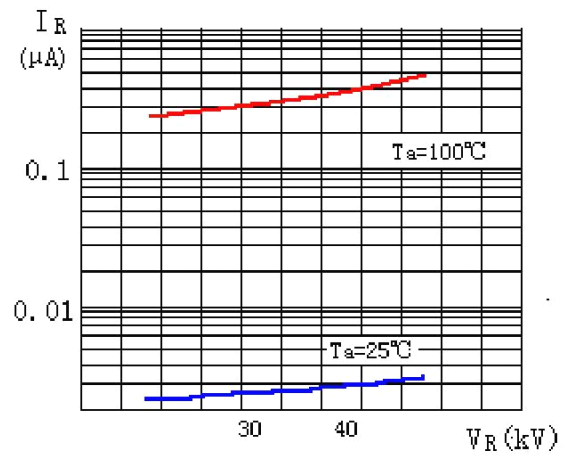


Size	1	2	3	4
A	35	40	60	80
$\Phi 1$	8	8	8	8
Φ Lead Wire	1.2	1.2	1.2	1.2

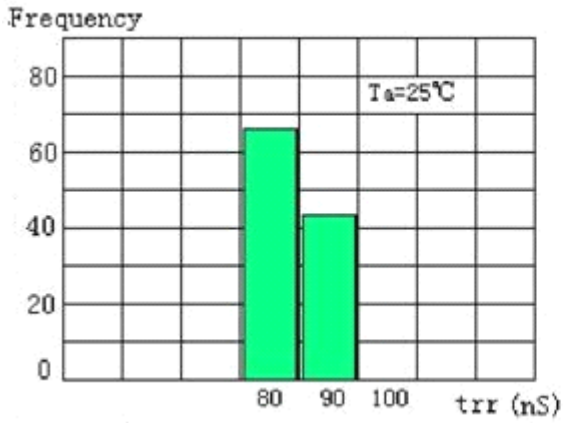
■ Characteristic Curve



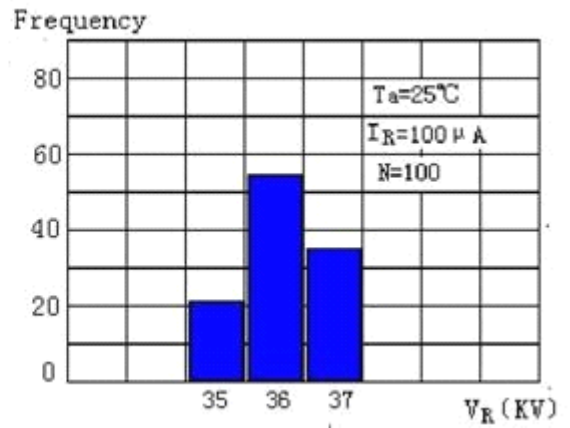
Forward Characteristics



Reverse Characteristics



Reverse Recovery Time Distribution



Avalanche Breakdown Voltage Distribution

Reverse Recovery Time Basic Test Circuit

