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℃—+150℃

■ Application

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

■ Maximum Ratings

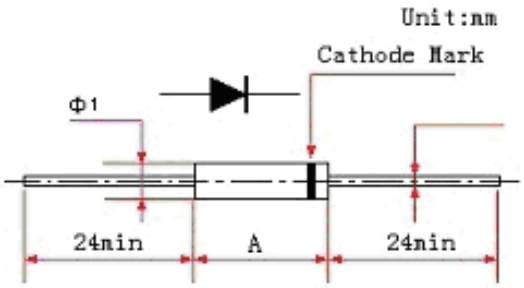
Item	Symbol	Conditions	Data	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	Ta=25℃ I_R=0.02μA	30	kV
Peak Working Revere Voltage	V_{RWM}	Ta=25℃ I_R=0.02μA	30	kV
Average Forward Current	$I_{F(AV)}$	（50Hz Half-sine Wave , Resistance load @T_{break}=50℃）	0.2	A
Reverse Recovery Time	trr	I_F=2mA I_R=4mA I_{RR}=1mA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

■ Electrical Characteristics (Ta=25℃ Unless Otherwise Specified)

Rated Value	Symbol	Conditions	Data	Unit
Forward Peak Voltage (Reference Value)	V	@ Ta=25℃ I_F=0. 2A	48	V
Peak Reverse Current (Reference Value)	I_{R1}	@ Ta=25℃ V_{RM}=V_{RRM}	2.0 max	μA
	I_{R2}	@ Ta=100℃ V_{RM}=V_{RRM}	50 max	μA

■ Dimensions

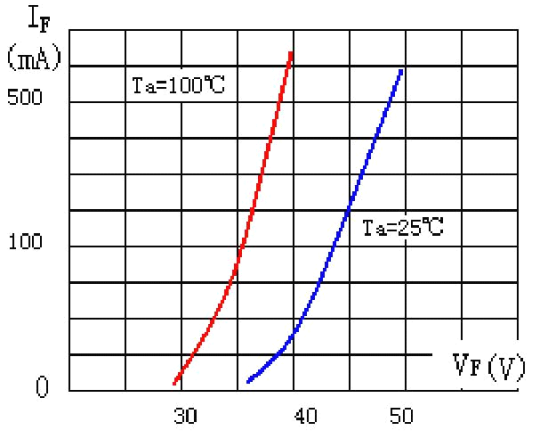
■ OUTLINE DRAWINGS



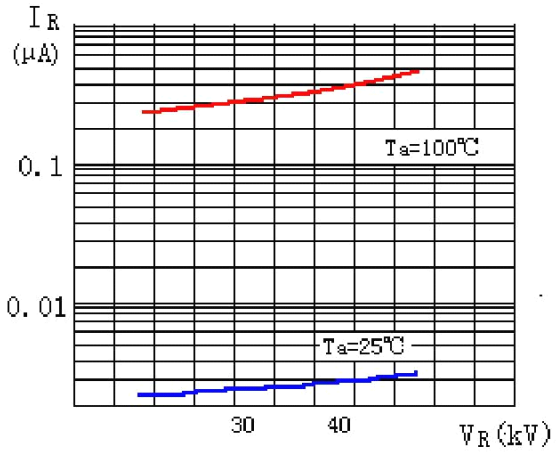


Size	1	2	3	4
A	35	40	60	80
Φ1	8	8	8	8
Φ Lead Wire	1.2	1.2	1.2	1.2

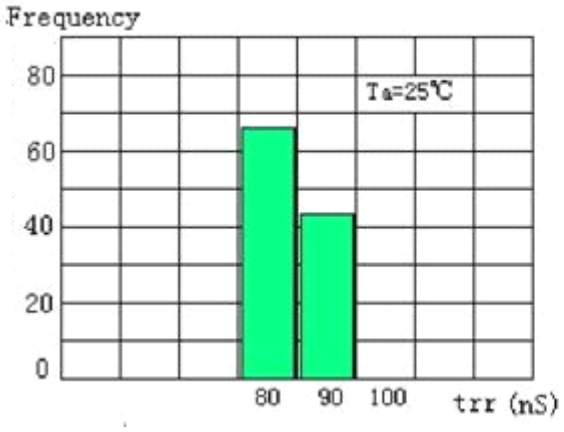
■ Characteristic Curve



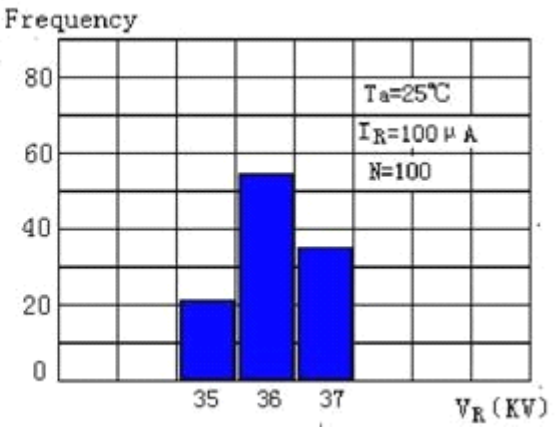
Forward Characteristics



Reverse Characteristics



Reverse Recovery Time Distribution



Avalanche Breakdown Voltage Distribution

Reverse Recovery Time Basic Test Circuit

