

High Voltage Rectifier Diode

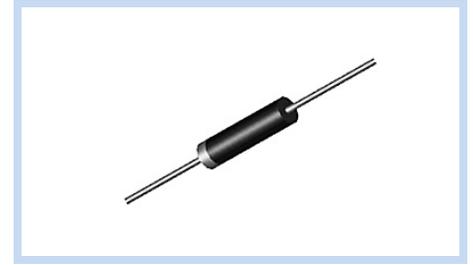
10KV~20KV DO-312

2CLG0210~2CLG0220

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FEATURE

- High Reverse Voltage Capability
- High Surge Current Resistance
- Fast Recovery Time for High-Frequency Operations
- Engineered for high-voltage rectification and protection



APPLICATIONS

- Medical Diagnostic Systems: X-Ray, CT and MRI Scanners
- Industrial High-Voltage and High-Power Machinery
- DC HV Power Supply, SCR-Controller Rectifier
- HF AC-to-DC Rectifier, RF and High-Speed Switching

ELECTRICAL CHARACTERISTICS

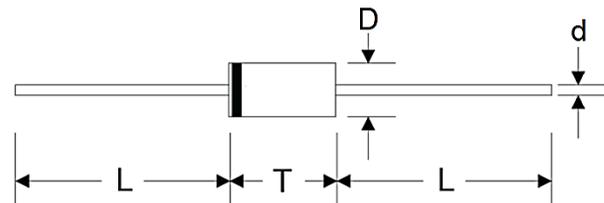
Parameter	Symbol	2CLG02 10	2CLG02 12	2CLG02 14	2CLG02 16	2CLG02 18	2CLG02 20	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	10	12	14	16	18	20	KV
Non-Repetitive Peak Reverse Voltage	V_{RSM}	10	12	14	16	18	20	KV
Maximum Average Forward Rectified Current	$I_{F(AV)}$	20						mA
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rate load	I_{FSM}	3						A
Maximum Forward Voltage at $I_{FM} = 10mA$	V_{FM}	40						V
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	5						μA
	$T_A = 25^\circ C$							
Maximum Reverse Recovery Time	t_{rr}	0.15						μs
Typical Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	60						$^\circ C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-40 ~ +150						$^\circ C$

Notes:

1. Ratings at 25°C ambient temperatures unless otherwise specified.
2. Reverse Recovery Time Test Condition: $I_F = 2mA$, $I_{RM} = 4mA$, $I_{RR} = 1mA$.

DIMENSIONS

Item	Min.(mm)	Max. (mm)
D	2.8	3.2
d	0.57	0.63
L	26.0	-
T	11.8	12.2



Note:

1. Case: DO-312, Molded Plastic
2. Epoxy: UL Flammability Classification Rating 94V-0
3. Polarity: Color Band Denotes Cathode End

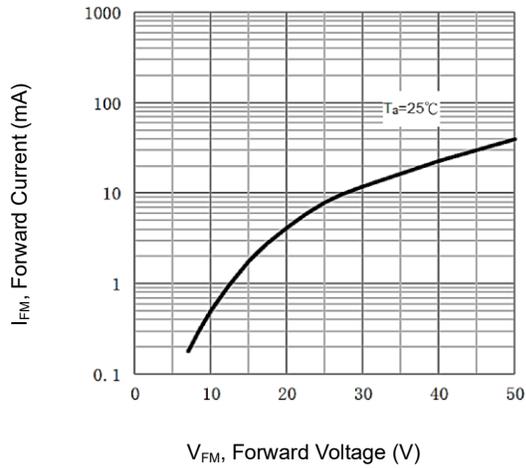
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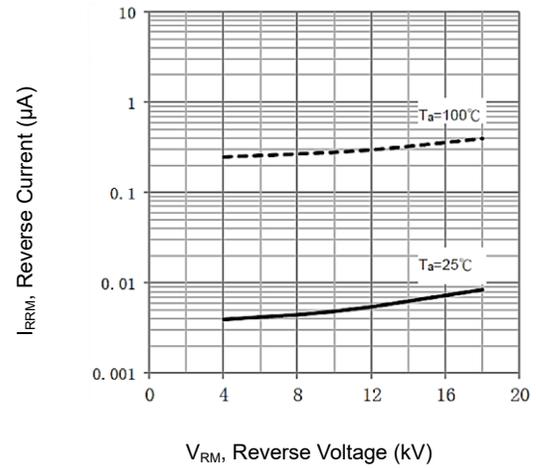
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CHARACTERISTIC CURVES

Typical Forward Characteristics



Typical Reverse Characteristics



Forward Current Derating Curve

