

# High Voltage Rectifier Diode

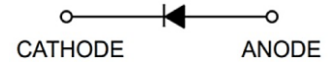
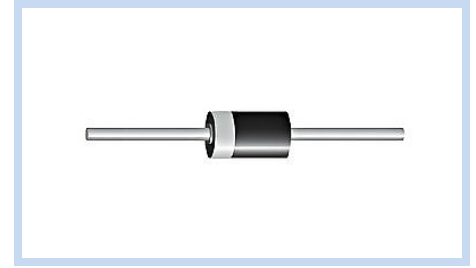
## 20KV DO-312

2CLG0320

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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	2CLG0320	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	KV
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	20	KV
Maximum Average Forward Rectified Current	$I_{F(AV)}$	30	mA
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rate load	$I_{FSM}$	2	A
Maximum Forward Voltage at $I_{FM} = 10\text{mA}$	$V_{FM}$	45	V
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	5	$\mu\text{A}$
	$T_A = 25^\circ\text{C}$		
Maximum Reverse Recovery Time	$t_{rr}$	0.15	$\mu\text{s}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-40 ~ +150	$^\circ\text{C}$

Notes:

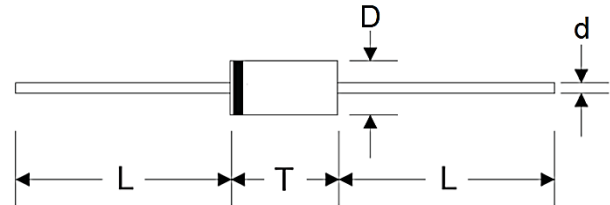
1. Ratings at 25°C ambient temperatures unless otherwise specified.
2. Reverse Recovery Time Test Condition:  $I_F = 2\text{mA}$ ,  $I_{RM} = 4\text{mA}$ ,  $I_{RR} = 1\text{mA}$ .

### 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



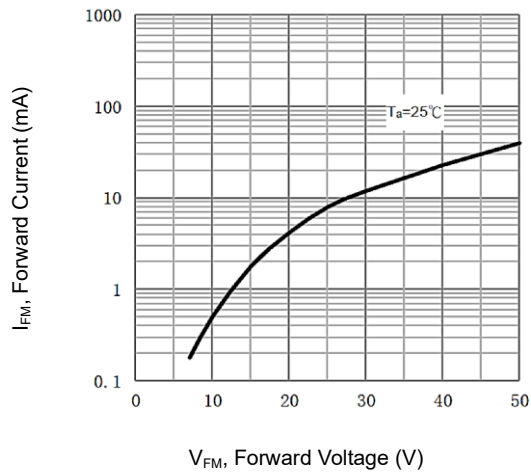
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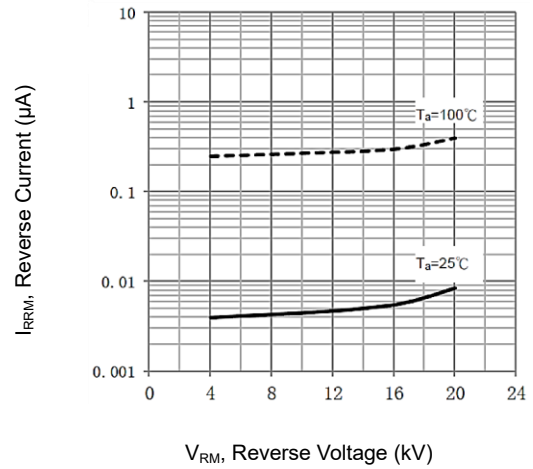
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## CHARACTERISTIC CURVES

Typical Forward Characteristics



Typical Reverse Characteristics



Forward Current Derating Curve

