

## Standard Recovery Diodes (Stud and Flat Base Type), 320A

### Features

- Diffused Series
- Industrial grade
- Available in Normal and Reverse polarity
- Metric and UNF thread type

### Electrical Specifications ( $T_A = 25^\circ\text{C}$ , unless otherwise noted)

Symbol	Parameters	Values	Units
$I_{F(AV)}$	Maximum avg. forward current @ $T_C = 150^\circ\text{C}$	320	A
$V_{FM}$	Maximum peak forward voltage drop @ rated $I_{F(AV)}$	1.4	V
$I_{FSM}$	Maximum peak one cycle (non-rep) surge current @ 10 msec	5600	A
$I^2t$	Maximum $I^2t$ rating (non-rep) for 5 to 10 msec	156800	$\text{A}^2\text{sec}$



DO-205AB (DO-9)

### Voltage Ratings ( $T_C = 25^\circ\text{C}$ , unless otherwise noted)

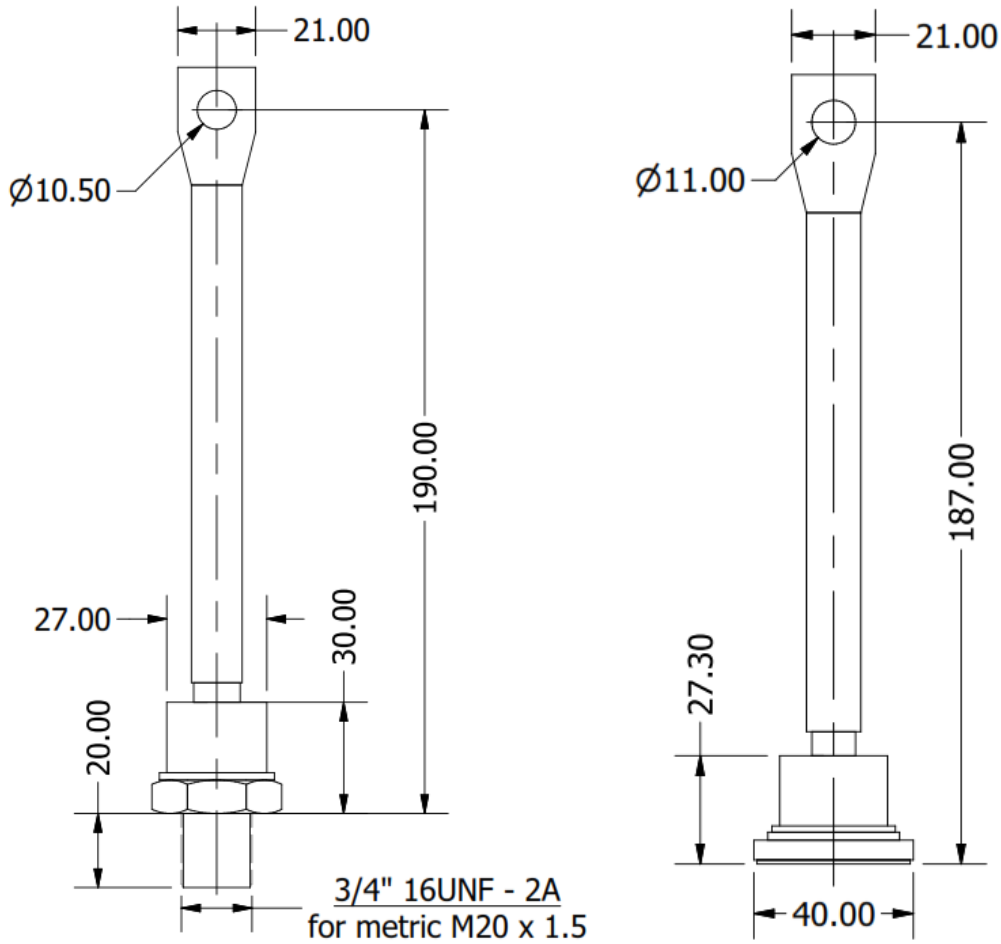
Type number	Voltage Code	$V_{RRM}$ , Maximum repetitive peak reverse voltage (V)	$V_{R(RMS)}$ , Maximum RMS reverse voltage (V)	$I_{RRM}$ , Maximum reverse leakage current at $T_J$ Max (mA)
320NS(R)	10	100	70	15
	20	200	140	
	40	400	280	
	60	600	420	
	80	800	560	
	100	1000	700	
	120	1200	840	
	140	1400	980	
	160	1600	1120	

### Thermal & Mechanical Specifications ( $T_C = 25^\circ\text{C}$ , unless otherwise noted)

Symbol	Parameters	Values	Units
$R_{th(JC)}$	Maximum thermal resistance, junction to case	0.18	$^\circ\text{C}/\text{W}$
$T_J$	Operating junction temperature range	-50 to 150	$^\circ\text{C}$
$T_{stg}$	Storage temperature	-50 to 180	$^\circ\text{C}$
F	Mounting torque (non-lubricated threads)	$35 \pm 10\%$	Nm
W	Approximate allowable weight	250	g

**Package Outline**

**Dimensions for DO-205AB (DO-9) (in millimeters)**



**Ordering Table**

320	NS	R	120
1	2	3	4

- 1 – Current Rating =  $I_F (AV)$
- 2 – Rectifier Diode
- 3 – Polarity:
  - > None = Normal (Cathode to Stud)
  - > R = Reverse (Anode to Stud)
- 4 – Voltage Code x 10 =  $V_{RRM}$  (See Voltage Ratings Table)