Standard Recovery Diodes (Stud Version), 12A

Features

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



DO-203AA (DO-4)

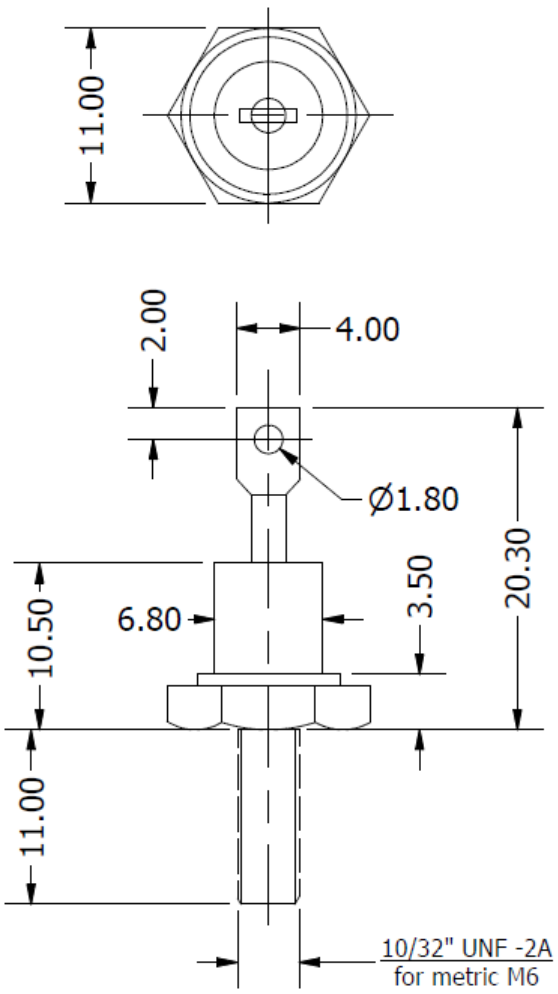
Electrical Specifications (T_E = 25°C, unless otherwise noted)			
Symbol	**Parameters**	**Values**	**Units**
$I_{F(AV)}$	Maximum avg. forward current @ T_E = 150°C	12	A
V_{FM}	Maximum peak forward voltage drop @ rated $I_{F(AV)}$	1.2	V
I_{FSM}	Maximum peak one cycle (non-rep) surge current @ 10 msec	250	A
I_{FRM}	Maximum peak repetitive surge current	60	A
I^2t	Maximum I^2t rating (non-rep) for 5 to 10 msec	250	A^2sec

Voltage Ratings (T_E = 25°C, unless otherwise noted)						
Type number	**Voltage Code**	**V_{RRM}, Maximum repetitive peak reverse voltage (V)**	**$V_{R(RMS)}$, Maximum RMS reverse voltage (V)**	**V_R, Maximum DC blocking voltage (V)**	**Recommended RMS working voltage (V)**	**$I_{R(AV)}$, Maximum avg. reverse leakage current (µA)**
12NS(R)	10	100	70	100	40	100
	20	200	140	200	80	
	40	400	280	400	160	
	60	600	420	600	240	
	80	800	560	800	320	
	100	1000	700	1000	400	
	120	1200	840	1200	480	
	140	1400	980	1400	560	
	160	1600	1120	1600	640	

Thermal & Mechanical Specifications (T_E = 25°C, unless otherwise noted)			
Symbol	**Parameters**	**Values**	**Units**
$R_{th(JC)}$	Maximum thermal resistance, junction to case	2	°C/W
T_J	Operating junction temperature range	-65 to 150	°C
T_{stg}	Storage temperature	-65 to 150	°C
	Mounting torque (non-lubricated threads)	0.14 (min) - 0.17 (max)	
W	Approximate allowable weight	7	g

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Package Outline



ALL DIMENSIONS IN MM

Ordering Table

12	*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)

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