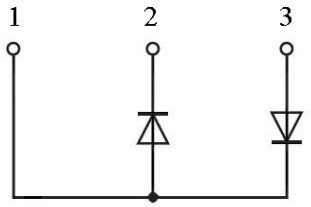
Name: AnDM200EA17M

Features:

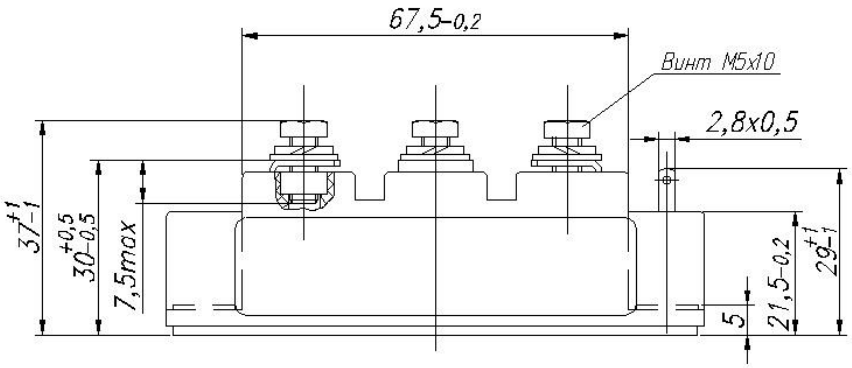
- Isolated metal baseplate
- Low switching losses
- Soft recovery

Applications:

- DC choppers
- Welding power supplies
- Inductive heating



Type	V_R	I_F	Package	Packaging
AnDM200EA17M	1700 V	200 A	MPP-34	Box



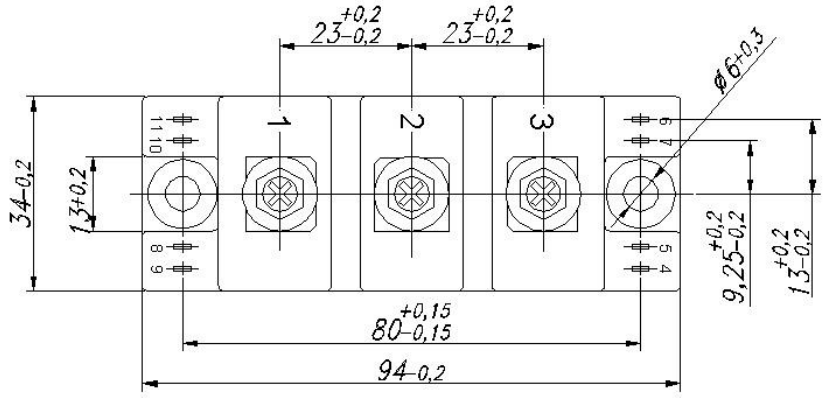


Table 1. Absolute Maximum Rated Values

	Parameter		Units
V_{RRM}	Repetitive Peak Reverse Voltage	1700	V
V_{DRM}	Non-repetitive Peak Reverse Voltage	1800	V
$V_{R\ (DC)}$	Reverse RC Voltage	1360	V
I_F, T_C=25ºC	Forward Current	200	A
I_{FM}, T_C=25ºC	Pulsed Forward Current	400	
I_F, T_C=80ºC	Forward Current	150	
I_{FM}, T_C=80ºC	Pulsed Forward Current	300	
P_D	Power Dissipation per Diode	520	W
T_j	Operating Temperature	–55 to +150	ºC
T_{stg}	Storage Temperature	–55 to +125	
	Weight	200	g
V_{iS}	Insulation Test Voltage (*t* = 1 min.)	2500	Vrms
	Creepage distance	20	mm

Table 2. Thermal Resistance

Symbol	Parameter	Min	Max	Units	Test Conditions
R_{thJC}	Thermal Resistance, Junction-to-Case	–	0.24	ºC/W	

Table 3. Electrical Characteristics @ T_J=25ºC (unless otherwise specified)

Symbol	Parameter	Min.	Typ.	Max.	Units	Test Conditions
V_F	Diode Forward Voltage	–	2.2	2.5	V	I_F=200 A
		–	2.35	–		I_F=200 A, T_j=125 ºC
I_R	Reverse Current	–	0.1	1.5	mA	V_{RRM}=1700 V
		–	10	–		V_{RRM}=1700 V, T_j=125 ºC
I_{rrm}	Maximum Reverse Recovery Current	–	115	–	A	I_F=200 A, di_F/dt=0.5 A/ns, T_j=125 ºC
t_{rr}	Diode Reverse Recovery Time	–	220	300	ns	
Q_{rr}	Diode Reverse Recovery Charge	–	24	–	µC	
S	Snap factor	1.0	–	–		

Table 4. Revision history

Date	Revision	Changes
06-April-2018	1	Complete version. Preliminary.