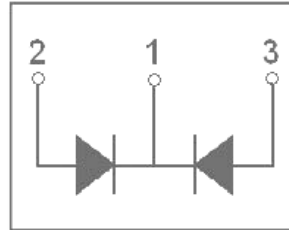


MMD200S120DK

1200V 200A Rectifier APPLICATIONS



- Field Supply For DC Motors
- Line Rectifiers For Transistorized AC Motor Controllers
- Non-controllable Rectifiers For AC/DC Converter

ABSOLUTE MAXIMUM RATINGS

$T_C=25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Test Conditions	Max.	Unit
V_{RRM}	Repetitive Reverse Voltage		1200	V
$I_{F(AV)}$	Average Forward Current	$T_C=85^\circ\text{C}$ Rectangular, $d=0.5$	200	A
$I_{F(RMS)}$	RMS Forward Current	$T_C=85^\circ\text{C}$ Rectangular, $d=0.5$	290	A
I_{FSM}	Non-Repetitive Surge Forward Current			

P_D	Power Dissipation		781	W
T_J	Junction Temperature		-40 to +150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range		-40 to +125	$^\circ\text{C}$
V_{isol}	Insulation Test Voltage	AC, 50Hz, $t=1\text{min}$	3000	V
Weight			161	g

ELECTRICAL AND THERMAL CHARACTERISTICS

$T_C=25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{RM}	Reverse Leakage Current	$V_R=1600\text{V}$	--	--	500	μA
		$V_R=1600\text{V}, T_J=125^\circ\text{C}$	--	--	10	mA
V_F	Forward Voltage	$I_F=500\text{A}$	--	1.3	1.55	V
		$I_F=500\text{A}, T_J=125^\circ\text{C}$	--	1.25	--	V
R_{JC}	Thermal Resistance	Junction-to-Case	--	--	0.16	$^\circ\text{C}/\text{W}$



MMD200S120DK

1200V 200A Rectifier Diode Module
RoHS Compliant

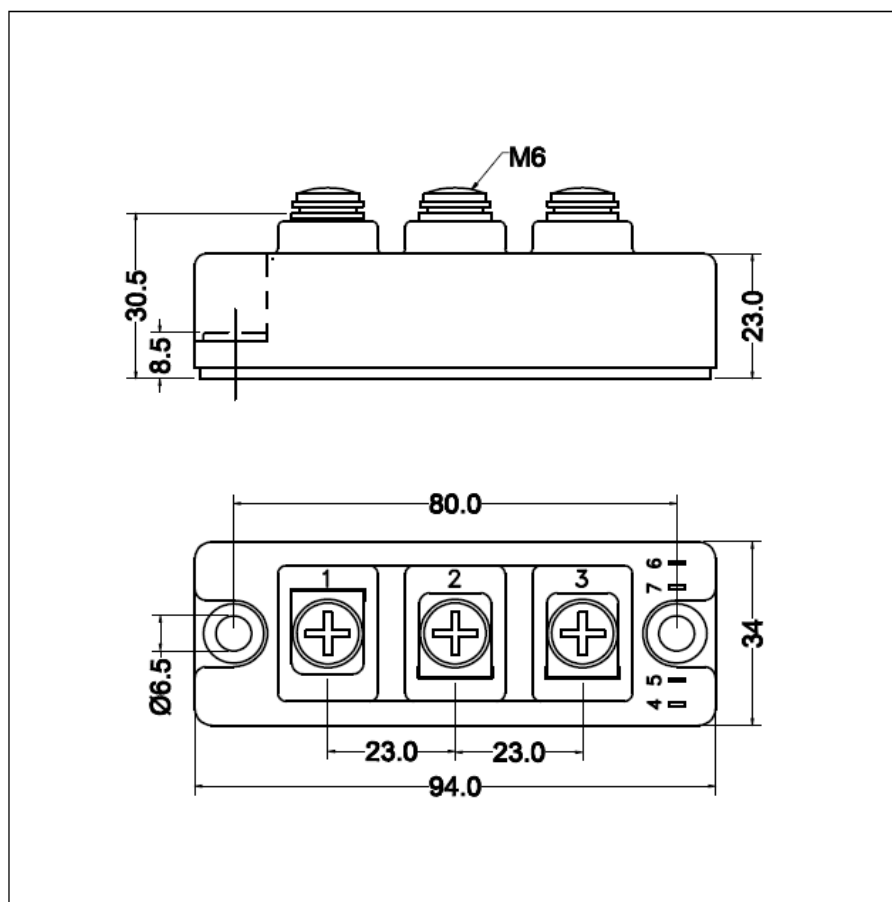
December 2008

PRELIMINARY

MECHANICAL CHARACTERISTICS

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Torque	Module-to-Sink	Recommended (M6)	3		5	N·m
Torque	Module Electrodes	Recommended (M6)	3		5	N·m

DS Package Outline (Dimensions in mm)



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