

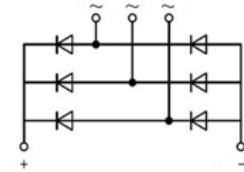
JSD200/16S

Description

- 1) Low forward voltage and leakage current
- 2) Low inductance package
- 3) High surge current capability



D2



symbol

Typical Application

- 1) Field supply for DC motors
- 2) Line rectifiers for transistorized AC motor controllers
- 3) Non-controllable rectifiers for AC/DC converter

Absolute Maximum Ratings (Packaged into D2, unless otherwise specified, $T_{CASE}=25^{\circ}C$)

Parameter	Test Conditions	Symbol	Values			Unit
			16	18	20	
Junction temperature range		T_J	-40~+150			$^{\circ}C$
Storage temperature range		T_{STG}	-40~+125			$^{\circ}C$
Repetitive peak reverse voltage		V_{RRM}	1600	1800	2000	V
Non-repetitive peak reverse voltage		V_{RSM}	1700	1900	2100	V
Output current	$T_C=95^{\circ}C$	I_D	200			A
Forward surge current	1/2 cycle, Sine wave	I_{FSM}	2000			A
Value for fusing	50Hz, $T_J=25^{\circ}C$	I^2t	20000			A^2s
RMS isolation voltage	A.C 50Hz(1s/1min)	V_{isol}	3600/3000			V

Electrical Characteristics (Packaged into D2, unless otherwise specified, $T_{CASE}=25^{\circ}C$)

Parameter	Test Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	$I_F=200A, T_J=25^{\circ}C$	V_{FM}	-	-	1.35	V
Reverse leakage current	$V_R=V_{RRM}, T_J=25^{\circ}C$	I_{RRM}	-	-	0.5	mA
	$V_R=V_{RRM}, T_J=150^{\circ}C$		-	-	10	mA
Threshold voltage	$T_J=150^{\circ}C$,	V_{TO}	-	-	0.85	V
Slope resistance	for power loss calculation only	r_T	-	-	3.8	m Ω



Three Phase Rectifier Bridge Module

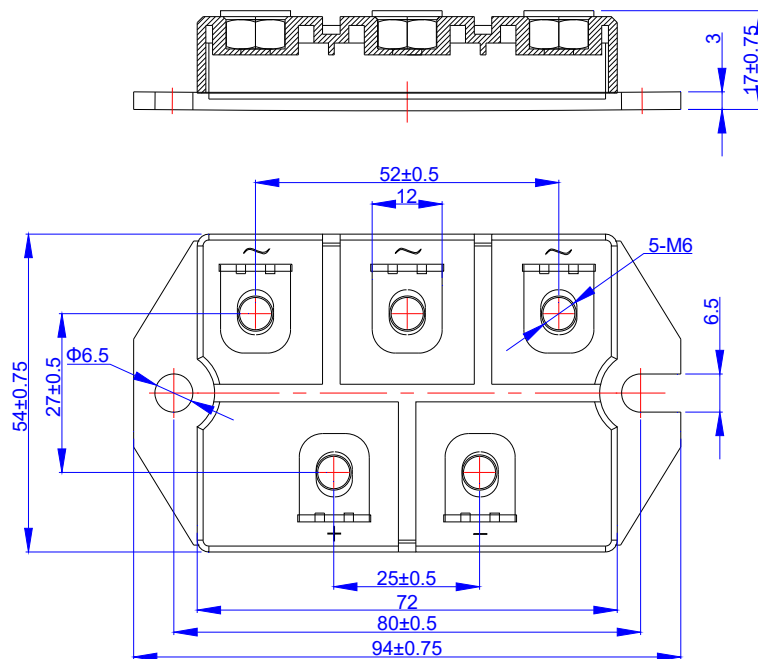
Thermal Characteristics (Packaged into D2, unless otherwise specified, $T_{CASE}=25^{\circ}\text{C}$)

Parameter	Test Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Thermal impedance(junction to case)	Per diode	$R_{th(j-c)}$	-	0.9		$^{\circ}\text{C/W}$
Mounting torque	Module and heatsink fixed torque,screw M6	M	-	5.0	-	Nm
	Electrode connection torque, screw M6		-	5.0	-	Nm
Weight			216			g
Case style			D2			

Ordering Information

JieJie Semiconductor Co., Ltd	JS	D	200	/	16	S
	Diode module		$I_D=200\text{A}$			package 16: $V_{RSM}\geq 1700\text{V}$ 18: $V_{RSM}\geq 1900\text{V}$ 20: $V_{RSM}\geq 2100\text{V}$

Mechanical Characteristics(mm)





Three Phase Rectifier Bridge Module

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