

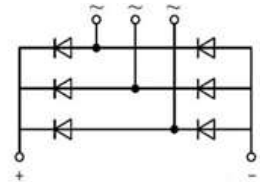
## JSD200

### 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<sub>CASE</sub>=25°C)

Parameter	Test Conditions	Symbol	Values				Unit
			12	16	18	20	
Junction temperature range		T <sub>J</sub>	-40~+150				°C
Storage temperature range		T <sub>STG</sub>	-40~+125				°C
Repetitive peak reverse voltage		V <sub>RRM</sub>	1200	1600	1800	2000	V
Non-repetitive peak reverse voltage		V <sub>RSM</sub>	1300	1700	1900	2100	V
Output current	T <sub>C</sub> =95°C	I <sub>D</sub>	200				A
Forward surge current	1/2 cycle, Sine wave 50Hz, T <sub>J</sub> =25°C	I <sub>FSM</sub>	2000				A
Value for fusing		I <sup>2</sup> t	20000				A <sup>2</sup> s
RMS isolation voltage	A.C 50Hz(1s/1min)	V <sub>isol</sub>	3600/3000				V



## Three Phase Rectifier Bridge Module

**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	$T_J=150^{\circ}C$ , for power loss calculation only	$V_{TO}$	-	-	0.85	V
Slope resistance		$r_T$	-	-	3	m $\Omega$

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

Parameter	Test Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Thermal impedance (junction to case)	Per diode	$R_{th(j-c)}$	-	-	0.6	$^{\circ}C/W$
Mounting torque	Module and heatsink fixed torque, screw M6	M	4.25	-	5.75	Nm
	Electrode connection torque, screw M6		4.25	-	5.75	Nm
Weight			270			g
Case style			D2			

### Ordering Information

<p><b>JS</b></p> <p>JieJie Semiconductor Co., Ltd</p>	<p><b>D</b></p> <p>Diode module</p>	<p><b>200</b></p> <p><math>I_D=200A</math></p>	<p><b>/18</b></p> <p>12: <math>V_{RSM} \geq 1300V</math>            16: <math>V_{RSM} \geq 1700V</math>            18: <math>V_{RSM} \geq 1900V</math>            20: <math>V_{RSM} \geq 2100V</math></p>
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## Three Phase Rectifier Bridge Module

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