



Features

- A package of series of two diodes
- Heat transfer through alumina ceramic and metal substrate
- Welding by vacuum welding technology, which provide high reliability

Product Summary

Applications

- AC converter
- Inverter
- DC motor

Absolute Maximum Ratings (@ $T_C = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Conditions	Symbol	Values	Unit
Repetitive peak reverse voltage	$T_{vj} = 25^\circ\text{C}$	V_{RRM}	1800	V
Non-repetitive peak reverse voltage	$T_{vj} = 25^\circ\text{C}$	V_{RSM}	1900	V
Average forward current	$T_C = 100^\circ\text{C}$	$I_{F(AV)}$	250	A

Forward surge current

1/2 cycle, Sine wave, 50Hz

$T_{vj} = 25$

**Electrical Characteristics (@ $T_C = 25^\circ\text{C}$ unless otherwise specified)**

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Peak forward voltage	$I_F=750\text{A}$, $t_P=380$	V_{FM}			1.60	V
Reverse leakage current	$V_R = V_{RRM}$, $T_{vj} = 25$	I_{RRM}			100	A
	$V_R = V_{RRM}$, $T_{vj} = 150$				90	mA
Threshold voltage	$T_{vj} = 150$, for power loss calculation only	V_{TO}			0.81	V
Dynamic resistance		r_T			0.8	m

Thermal Characteristics (@ $T_C = 25^\circ\text{C}$ unless otherwise specified)

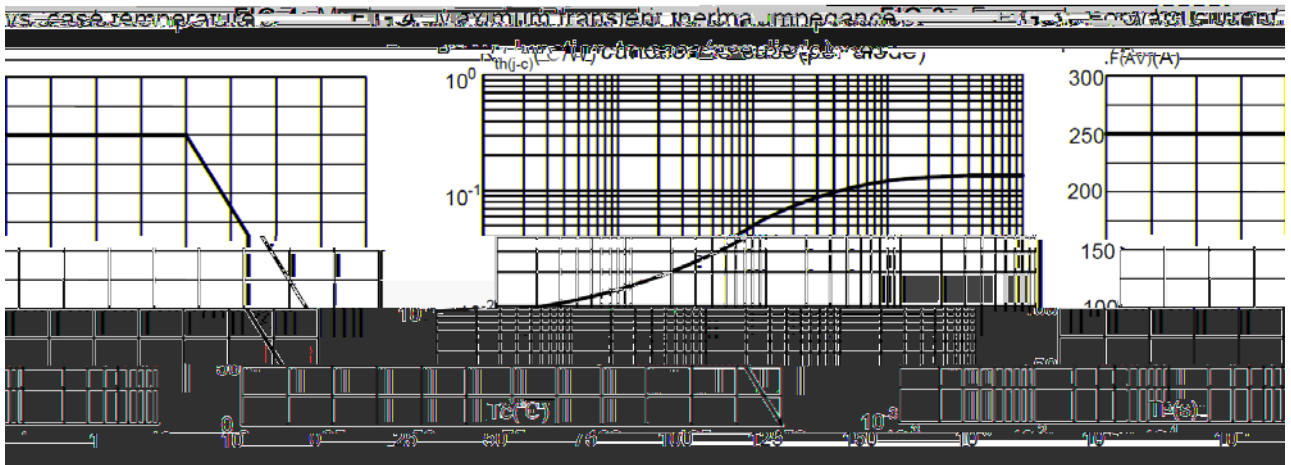
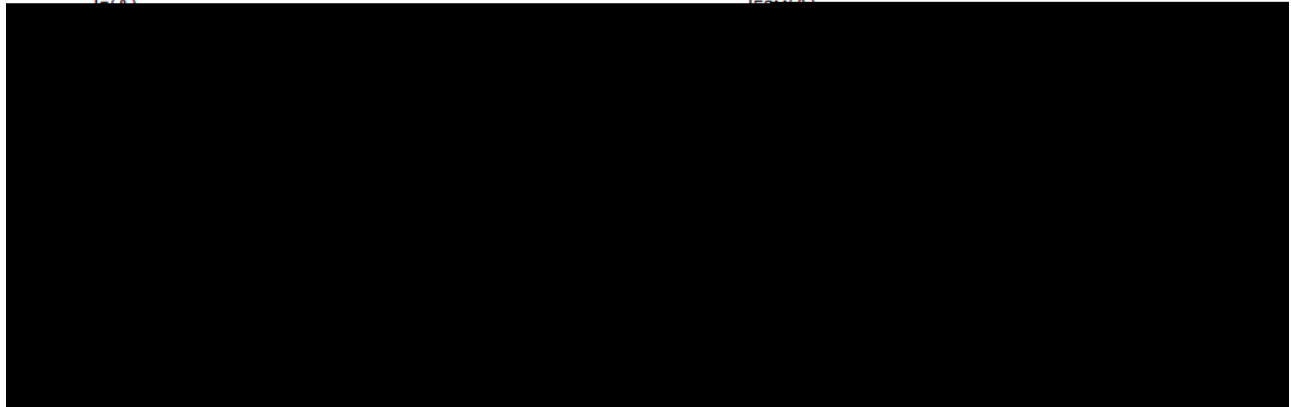
Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Thermal resistance, junction to case	per diode	$R_{th(j-c)}$		0.13		/W
Thermal resistance, case to heatsink	per diode	$R_{th(c-s)}$		0.07		/W
Mounting torque	Module and heatsink fixed torque M5	M	4.25		5.75	N·m
	Electrode connection torque, screw M6		4.25		5.75	N·m

Ordering Information

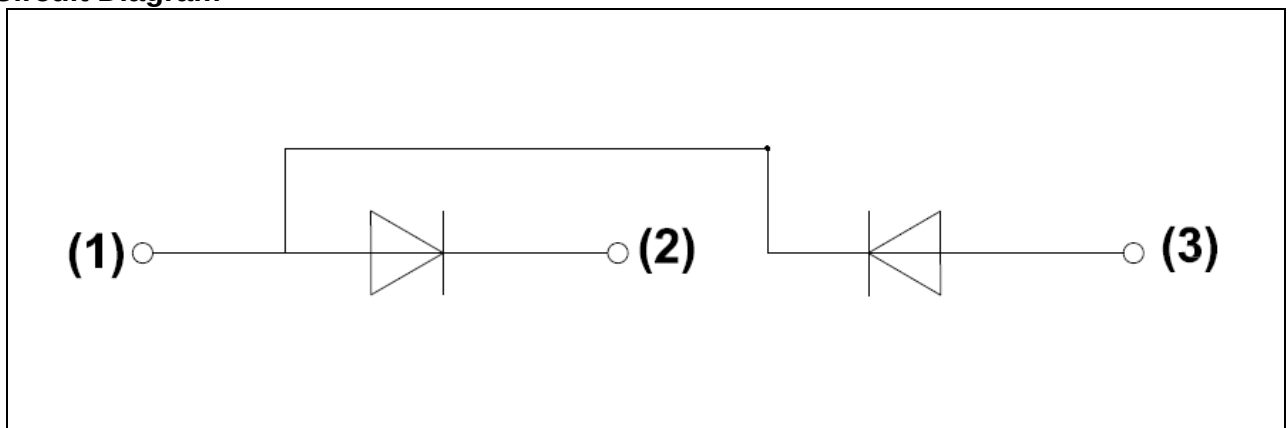
Device	Marking	Package	Weight	Inner Box	Pre Carton
JMD250KD18T2W	JMD250KD18T2W	T2	$170 \pm 10\text{g/PCS}$	6 PCS	72 PCS

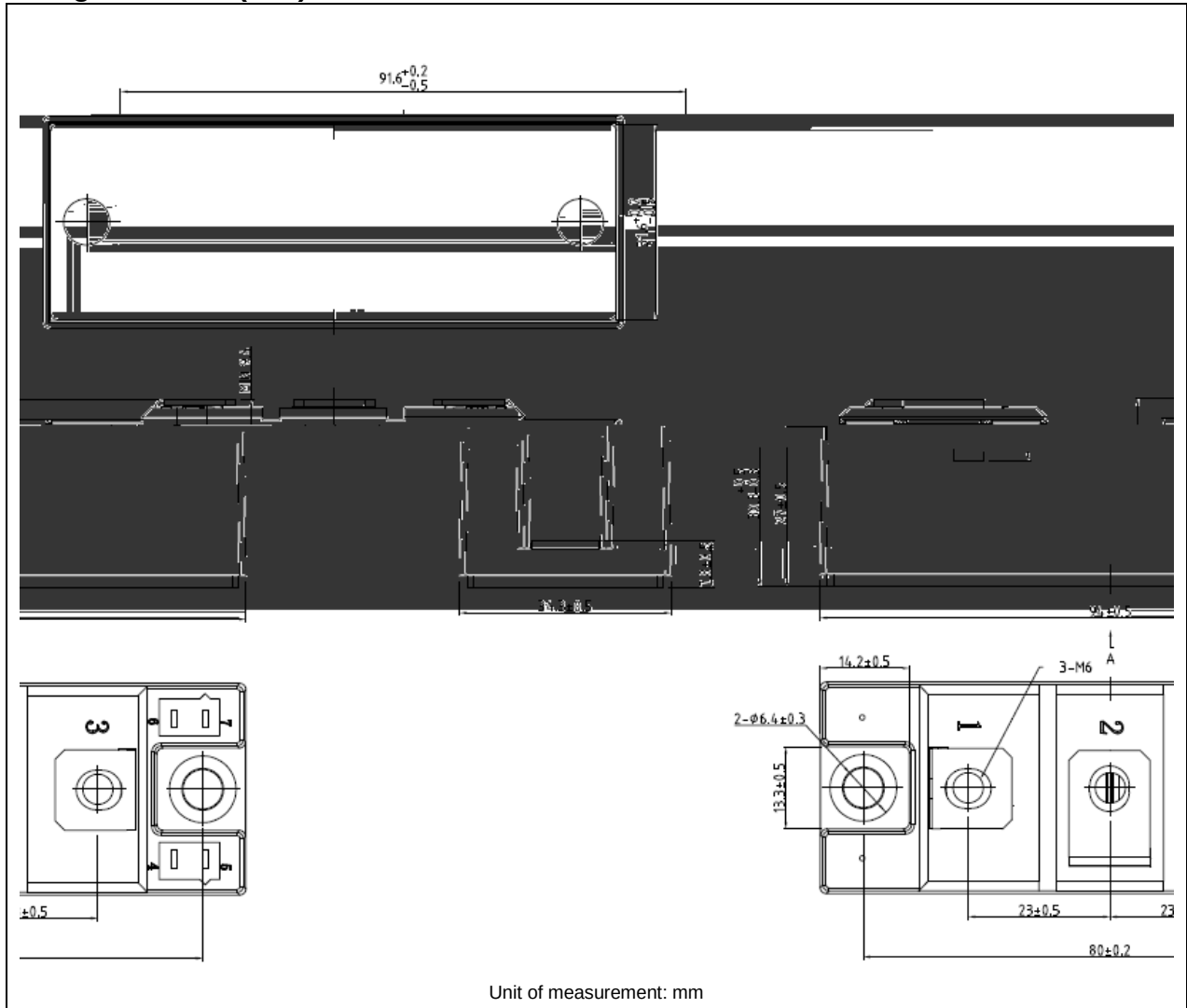
Typical Electrical & Thermal Characteristics

FIG.1: Forward characteristics(per diode),

FIG.2: Peak on-state surge current


Circuit Diagram



Package Outlines (mm)




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