



JMD120KD20T1W

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

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

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Peak forward voltage	$I_F=360\text{A}$, $t_P=380\mu\text{s}$	V_F			1.60	V
Reverse leakage current	$V_R = V_{RRM}$, $T_{vj} = 25$	I_{RRM}			100	μA
	$V_R = V_{RRM}$, $T_{vj} = 150$				40	mA
Threshold voltage	$T_{vj} = 150$, for power loss calculation only	V_{TO}			0.85	V
Dynamic resistance		r_T			1.5	m

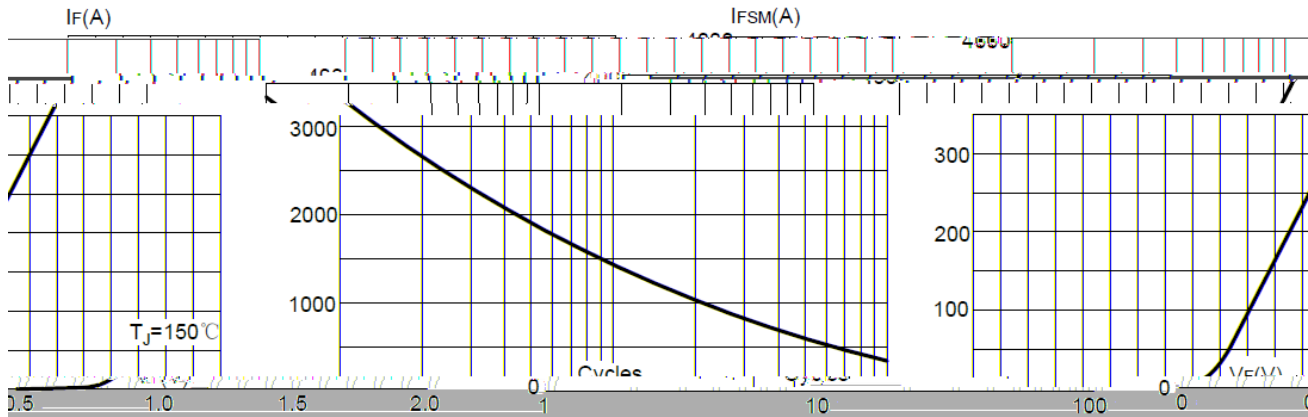
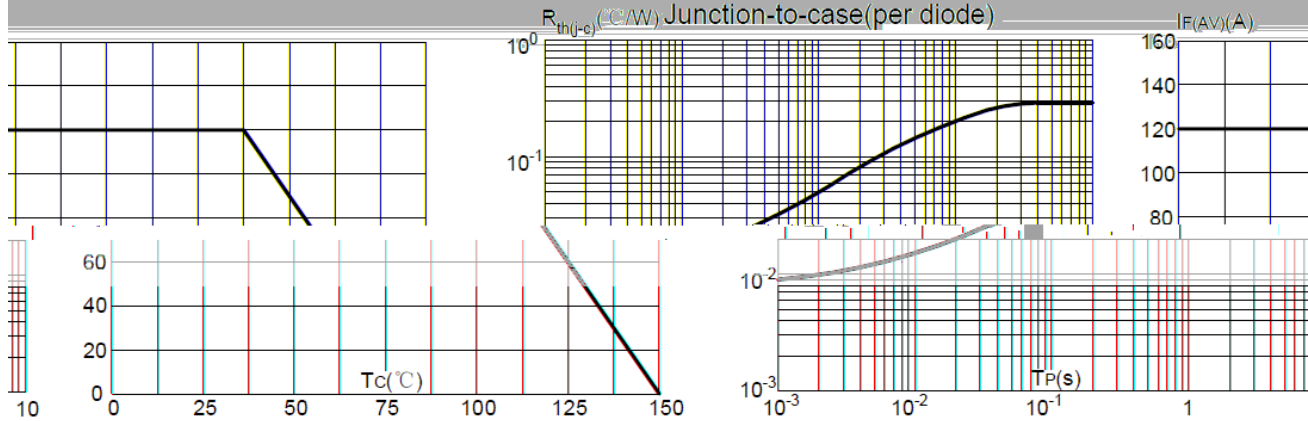
Thermal Characteristics (@ $T_C = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Thermal resistance, junction to case	per diode	$R_{th(j-c)}$		0.20		/W
Thermal resistance, case to heatsink	per diode	$R_{th(c-s)}$		0.12		/W

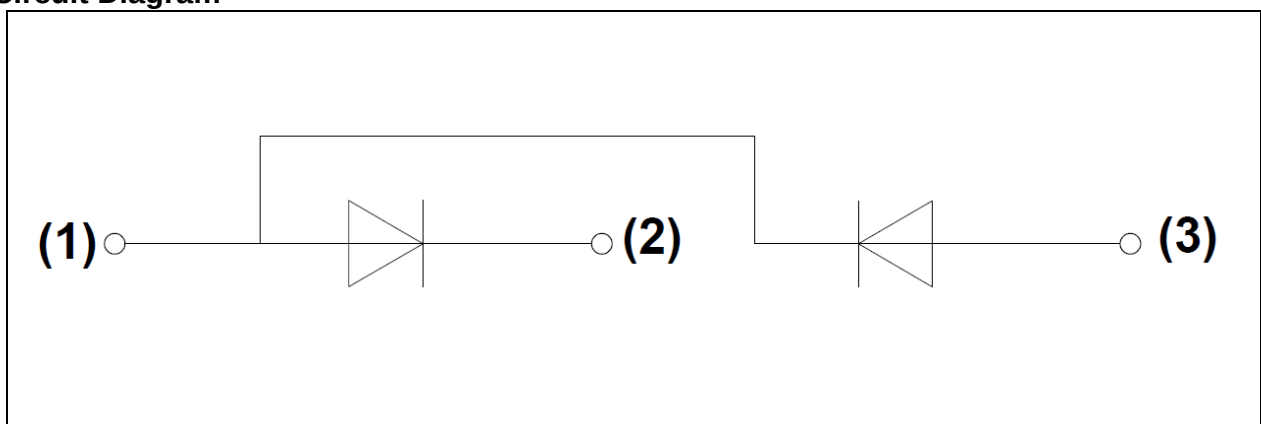
Mounting torque Module and heatsink fixed torque 4.25 5.75 w 0 -1.1.006 Tw ode N·m

M

Typical Electrical & Thermal Characteristics

FIG.1: Forward characteristics(per diode)
FIG.2: Peak on-state surge current

FIG.3: Forward current vs. case temperature
FIG.4: Maximum transient thermal impedance
FIG.5: Forward current vs. case temperature


Circuit Diagram





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