



Low forward voltage and leakage current

Low inductance package

High surge current capability

Field supply for DC motors

Line rectifiers for transistorized AC motor controllers

Non-controllable rectifiers for AC/DC converter

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

Repetitive peak reverse voltage	$T_{vj} = 25^\circ\text{C}$	V_{RRM}	2000	V
Non-repetitive peak reverse voltage	$T_{vj} = 25^\circ\text{C}$	V_{RSM}	2100	V

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

Peak forward voltage	$I_F=50\text{A}$, $t_P=380$	V_{FM}		1.20	1.40	V
Reverse leakage current	$V_R = V_{RRM}$, $T_{vj} = 25$	I_{RRM}			0.3	mA
	$V_R = V_{RRM}$, $T_{vj} = 150$				5	mA
Threshold voltage	$T_{vj} = 150$, for power loss calculation only	V_{TO}			0.92	V
Dynamic resistance		r_T			4.6	

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

Thermal resistance, junction to case	per diode	$R_{th(j-c)}$			1.45	K/W
Thermal resistance, case to heatsink	per module	$R_{th(c-s)}$			0.07	K/W
Mounting torque	Module and heatsink fixed torque M5	M	4.25		5.75	N·m
	Electrode to terminal screw M5	M	4.25		5.75	N·m

JMD50TD20D3	JMD50TD20D3	D3	146g/PCS	10PCS	90PCS

FIG.1: Forward characteristics(per diode)

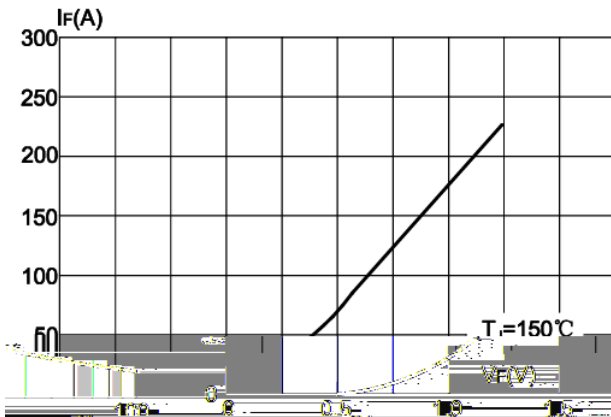


FIG.2: Peak on-state surge current

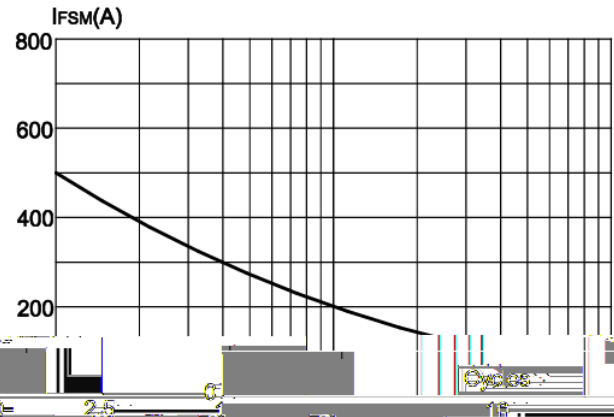


FIG.3: Forward current vs. case temperature

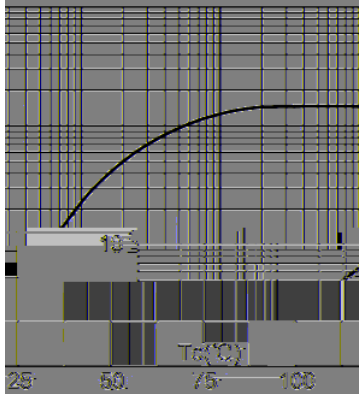


FIG.4: Maximum thermal impedance

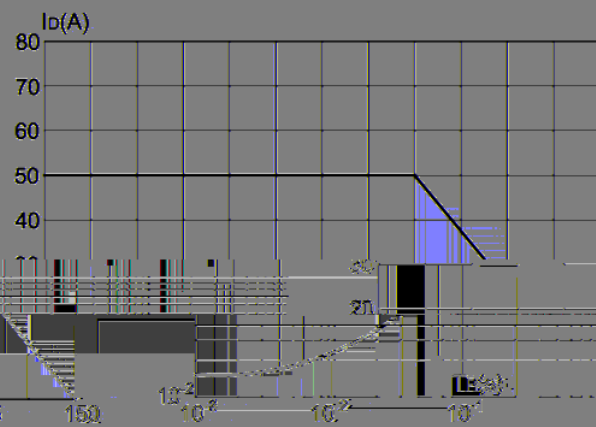
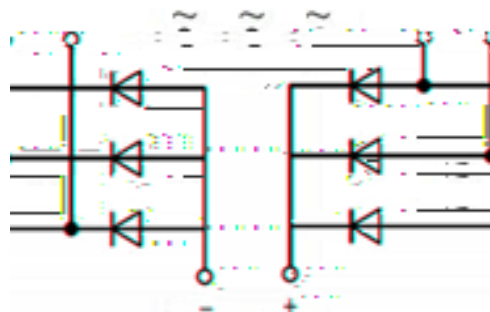
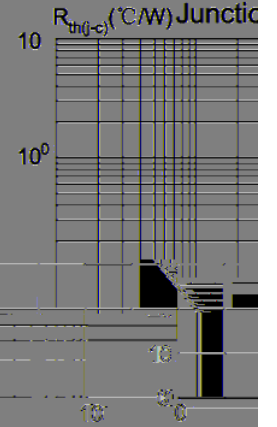


FIG.5: Maximum thermal impedance







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