





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

Peak forward voltage	$I_F=360\text{A}$, $t_P=380\mu\text{s}$	V_F			1.60	V
Reverse leakage current	$V_R = V_{RRM}$, $T_{vj} = 25\text{ }^{\circ}\text{C}$	I_{RRM}			100	μA
	$V_R = V_{RRM}$, $T_{vj} = 150\text{ }^{\circ}\text{C}$				40	mA
Threshold voltage	$T_{vj} = 150\text{ }^{\circ}\text{C}$, for power loss calculation only	V_{TO}			0.85	V
Dynamic resistance		r_T			1.5	$\text{m}\Omega$

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

Thermal resistance, junction to case	per diode	$R_{th(j-c)}$		0.29		/W
Thermal resistance, case to heatsink	per diode	$R_{th(c-s)}$		0.12		/W
Mounting torque	Module and heatsink fixed torque M5	M	1.7		2.3	N m

JMD120K318V1W	JMD120K318V1W	V1	43g/PCS	60 PCS	360 PCS

FIG.1: Forward characteristics(per diode)

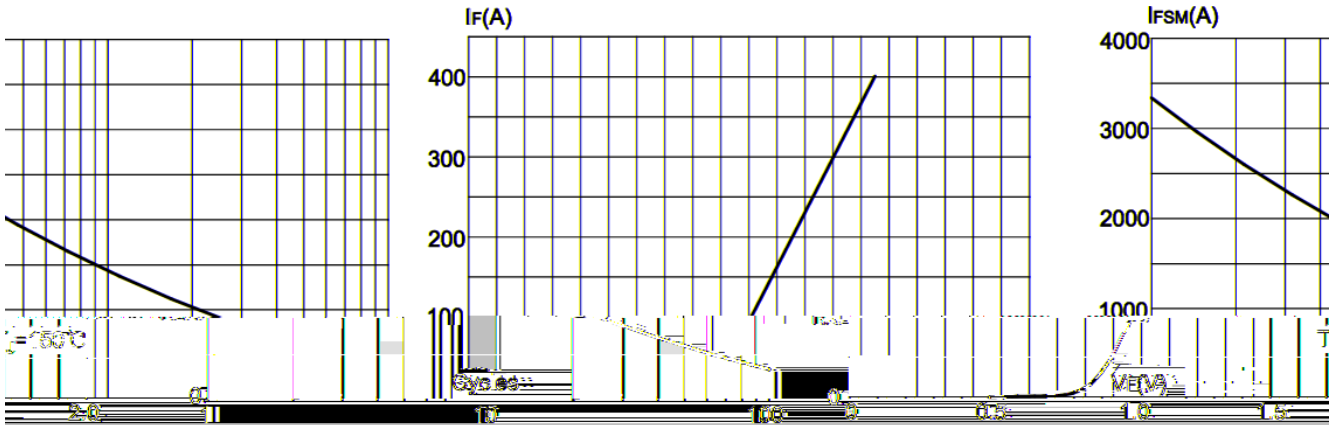


FIG.2: Peak on-state surge current

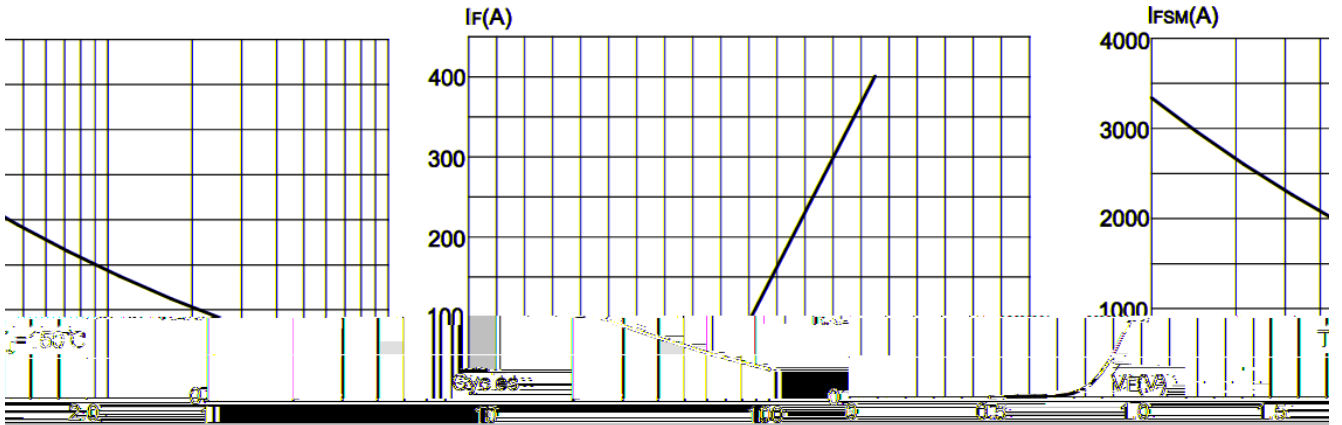


FIG.4: Maximum transient thermal impedance
 $R_{th(j-c)}$ (°C/W) Junction-to-case(per diode)

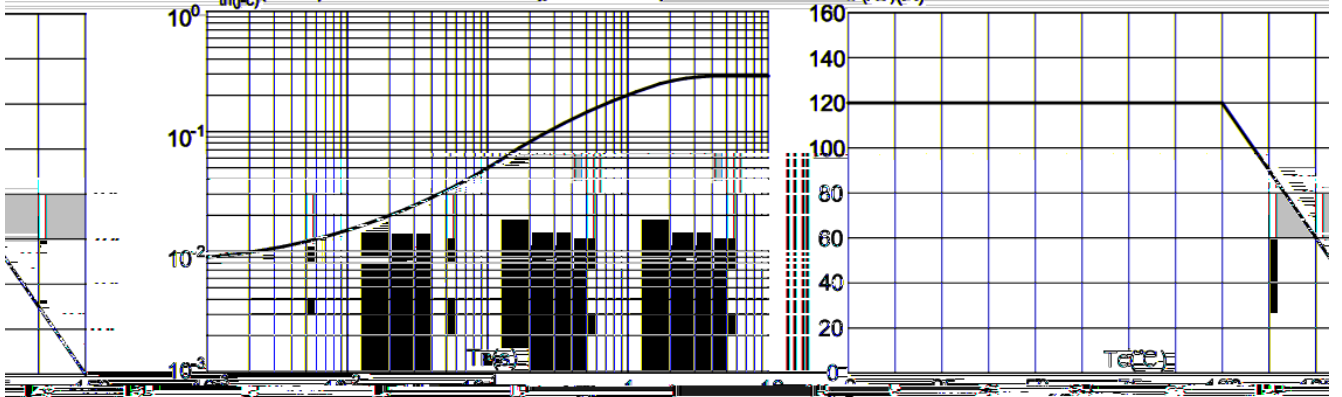
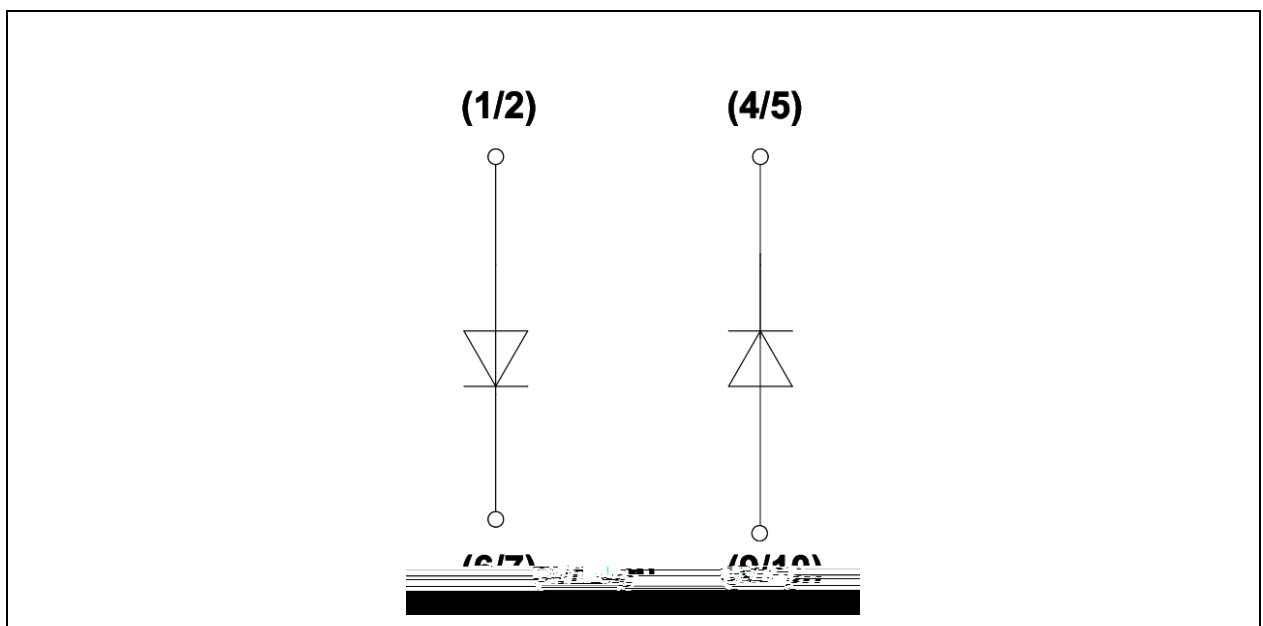
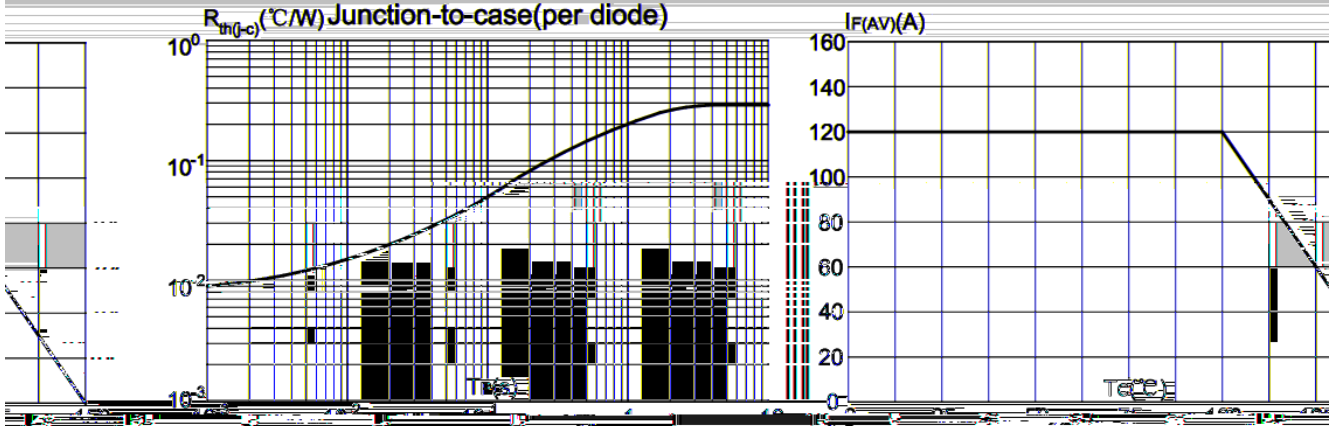


FIG.3: Forward current vs. case temperature





Information furnished in this document is believed to be accurate and e accurate and e a7201(a4