MG150HF065TLC1

650V

150A

g Inverter for motor drive

g AC and DC servo drive amplifier

g UPS (Uninterruptible Power Supplies)

Circuit


Gate-emitter Threshold Voltage	$V_{GE(th)}$	$V_{GE}=V_{CE}$, I_C =2.4mA,T_{vj}=25	5.0	5.8	6.5	V

Collector-Emitter Cut-off C

Repetitive Peak Reverse Voltage	V_{RRM}	T_{vj}=25	650	V
Continuous DC Forward Current	I_F		150	A
Repetitive Peak Forward Current	I_{FRM}	t_p=1ms	300	A
I^2t-value	I^2t	V_R=0V,t_p=10ms,T_{vj}=125	2050	A^2s
		V_R=0V,t_p=10ms,T_{vj}=150	1950	

Forward Voltage	V_F	I_F=150A,T_{vj}=25		1.55		V
		I_F=150A,T_{vj}=125		1.45		
		I_F=150A,T_{vj}=150		1.40		
Recovered Charge	Q_{rr}	I_F=150A V_R=300V -di_F/dt=2200A/us T_{vj}=25		2.44		uC
Peak Reverse Recovery Current	I_{rr}			70		A
Reverse Recovery Energy	E_{rec}			0.85		mJ
Recovered Charge	Q_{rr}	I_F=150A V_R=300V -di_F/dt=2200A/us T_{vj}=125		3.24		uC
Peak Reverse R						

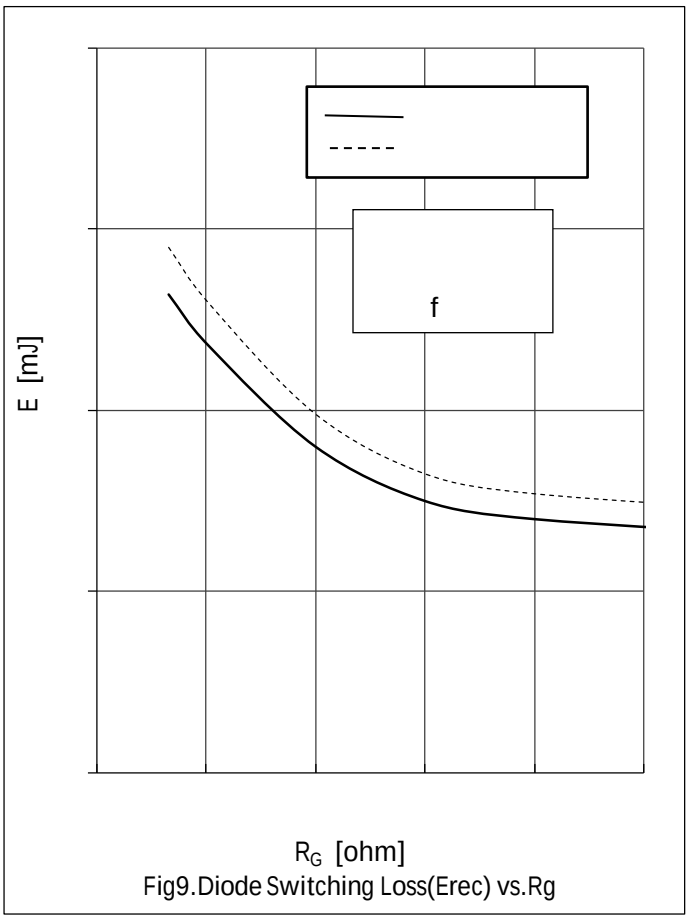

Fig9.Diode Switching Loss(Erec) vs.Rg

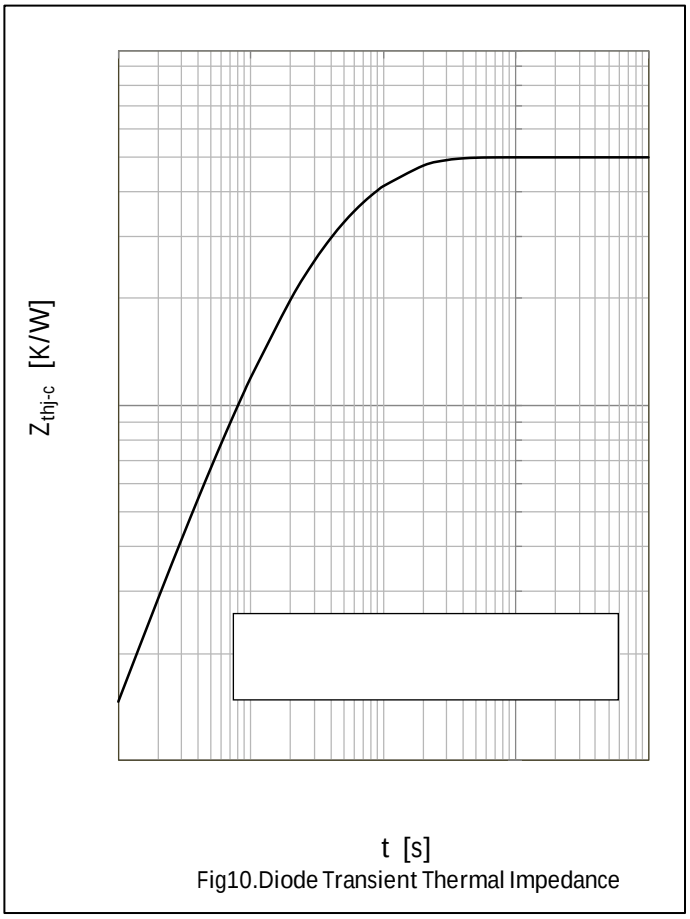

Fig10.Diode Transient Thermal Impedance