

SA51M

SG	PARAMETER	SYMBOL	TEMP.	POWER	TEST CONDITIONS	MIN	MAX	UNITS
1	Quiescent Current	I_Q	25°C	+28Vdc	PWM Not switching		18	mA
1	ON Voltage	V_{DS}	25°C	+28Vdc	$I_D = 5A$		1.8	V
1	OFF Leakage	I_{DSS}	25°C	+70Vdc	Output off, $V_{DS} = 70V$		25	μA
1	Input Voltage Threshold	V_{INTH}	25°C	+28Vdc	Input increased until A_{OUT} and B_{OUT} change state	0.8	2.7	V
3	Quiescent Current	I_Q	-55°C	+28Vdc	PWM Not switching		18	mA
3	ON Voltage	V_{DS}	-55°C	+28Vdc	$I_D = 5A$		1.2	V
3	OFF Leakage	I_{DSS}	-55°C	+70Vdc	Output off, $V_{DS} = 70V$		25	μA
3	Input Voltage Threshold	V_{INTH}	-55°C	+28Vdc	Input increased until A_{OUT} and B_{OUT} change state	0.8	2.7	V
2	Quiescent Current	I_Q	125°C	+28Vdc	PWM Not switching		18	mA
2	ON Voltage	V_{DS}	125°C	+28Vdc	$I_D = 5A$		2.4	V
2	OFF Leakage	I_{DSS}	125°C	+70Vdc	Output OFF, $V_{DS} = 70V$		250	μA
2	Input Voltage Threshold	V_{INTH}	125°C	+28Vdc	Input increased until A_{OUT} and B_{OUT} change state	0.8	2.7	V
4	Operating Supply Current	I_S	25°C	+28Vdc	PWM = 500khz TTL		60	mA
7	Disable Function	D_{IS}	25°C	+28Vdc	Disable $\geq 3.6V$, PWM input=500KHz, verify no switching		Pass/Fail	

$1/V_{CC} = +12Vdc$, $R_{SENSE} = \text{Disable} = \text{Ground}$, $R_L = 1K \text{ ohm}$, A_{OUT} to B_{OUT}

BURN IN CIRCUIT

