

## 4. OUTPUT SPECIFICATIONS

PARAMETER		DESCRIPTION	MIN	TYP	MAX	UNIT
Output Voltage Set Point	$V_o, \text{ set} \geq 0.9\text{VDC}$	Setpoint test condition: $V_{in}=12\text{V}$ , $I_{out}=\text{half load}$ , $T_a=25^\circ\text{C}$	-2	-	2	% $V_o, \text{ set}$
	$V_o, \text{ set} < 0.9\text{VDC}$		-3	-	3	
Load regulation	$V_o \geq 3.3\text{VDC}$	$V_{in}=12\text{V}$ , $I_o=0-6\text{A}$ , $T_a=25^\circ\text{C}$ .	-2	-	2	% $V_o, \text{ set}$
	$V_o < 3.3\text{VDC}$		-40	-	40	mV
Line Regulation	$V_o \geq 3.3\text{VDC}$	$V_{in}=8-13.2\text{V}$ , $I_o=3\text{A}$ , $T_a=25^\circ\text{C}$ . $V_{in}=5.5-13.2\text{V}$ , $I_o=3\text{A}$ , $T_a=25^\circ\text{C}$ .	-1.5	-	1.5	% $V_o, \text{ set}$
	$V_o < 3.3\text{VDC}$		-15	-	15	mV
Regulation Over Temperature			-	0.8	-	% $V_o, \text{ set}$
Output Ripple and Noise (pk-pk)		0-20MHz BW, with 360 $\mu\text{F}$ ceramic capacitor at output.	-	60	200	mV
Output Ripple and Noise (rms)			-	15	80	mV
Output Current Range			0	-	6	A
Output DC Current Limit			7	-	10	A
Output Short-Circuit Current ( $V_o \leq 20\text{mV}$ )(Hiccup Mode)			-	-	4	ADC
Rise time			-	2	2.5	ms
Turn On Time			-	2.9	5	ms
Overshoot at Turn on			-	0	4.5	%
Output Capacitance			200	-	2000	$\mu\text{F}$

PARAMETER		DESCRIPTION	MIN	TYP	MAX	UNIT
<b>TRANSIENT RESPONSE</b>						
$\Delta V 50\% \sim 100\% \text{ Max Load}$	Overshoot	$di/dt=0.25\text{A}/\mu\text{s}$ , $V_{in}=12\text{VDC}$ , $T_a=25^\circ\text{C}$ , with 360 $\mu\text{F}$ ceramic capacitor at output.	-	40	80	mV
	Settling Time		-	80	200	$\mu\text{s}$
$\Delta V 100\% \sim 50\% \text{ Max Load}$	Overshoot		-	40	80	mV
	Settling Time		-	80	200	$\mu\text{s}$

**NOTE:** All specifications are typical at nominal input, full load at 25°C unless otherwise stated.

## 5. GENERAL SPECIFICATIONS

PARAMETER		DESCRIPTION	MIN	TYP	MAX	UNIT
Switching Frequency			-	650	-	kHz
Efficiency	5.5 V		92.2	94.2		%
	3.3 V		9.	91.6		
	0.6 V		69	71		
Output Voltage Trim Range(Wide Trim)		This voltage is achieved by trimming up output slowly.	0.6	-	5.5	V
FIT		Calculated Telcordia SR-332, Issue 2 ( $V_{in}=12\text{V}$ , $V_o=5.5\text{V}$ , $I_o=6\text{A}$ , $T_a = 40\text{C}$ , no forced air, 90% confidence Level $\text{FIT}=10^9/\text{MTBF}$ )	-	17	-	-
Weight			-	2.5	-	g
Dimensions (L x W xH)			0.41 x 0.65 x 0.339 10.41 x 16.51 x 8.60			inch mm

**NOTE:** All specifications are typical at nominal input, full load at 25°C unless otherwise stated.



Asia-Pacific  
+86 755 298 85888

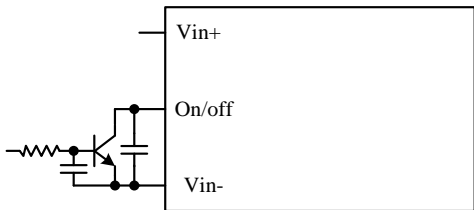
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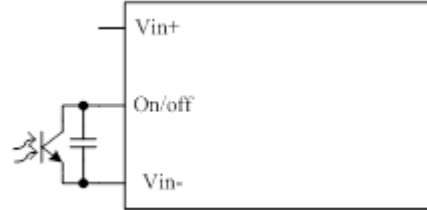
### 6. REMOTE ON/OFF

PARAMETER	DESCRIPTION	MIN	TYP	MAX	UNIT
Signal Low (Unit On)	Active High The remote on/off pin open, Unit off.	-0.3	-	0.8	V
Signal High (Unit Off)		2.4	-	18	V

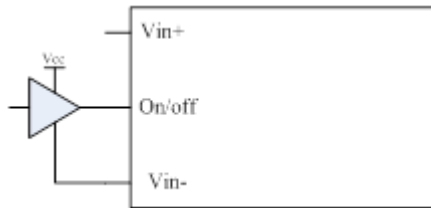
#### Recommended remote on/off circuit for active high



Control with open collector/drain circuit



Control with photocoupler circuit



Control with logic circuit



Permanently off

### 7. EFFICIENCY DATA

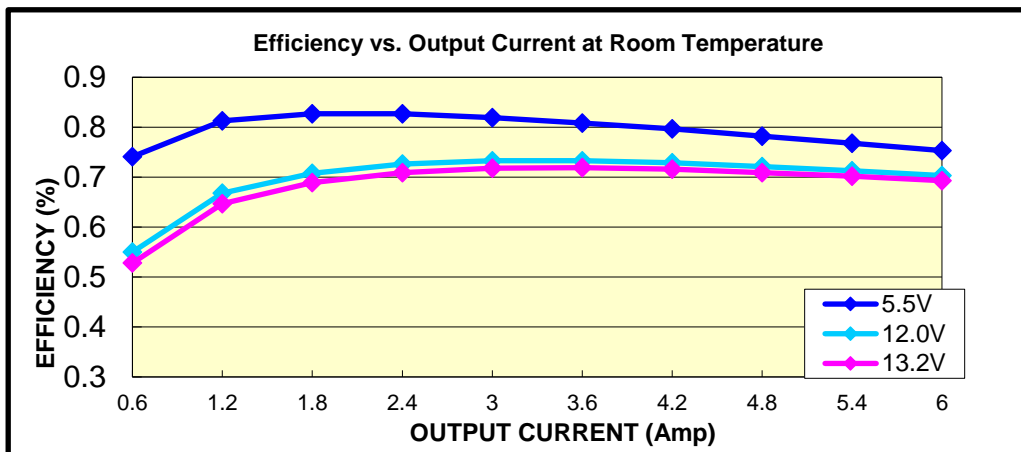


Figure 1.  $V_{out} = 0.6 V$