

## Features

- \* Maximum Output Current  $I_O$ : 0.1 A
- \* Output Voltage  $V_O$ : 5 V
- \* Continuous Total Dissipation
- \*  $P_D$ : 0.25 W ( $T_a = 25^\circ\text{C}$ )

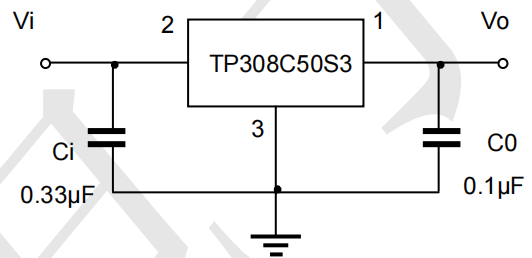
## Mechanical Characteristics

- \* Package: SOD-23
- \* Lead Finish: Matte Tin
- \* Case Material: "Green" Molding Compound.
- \* Shipping Qty :3000 /7Inch Tape & Reel

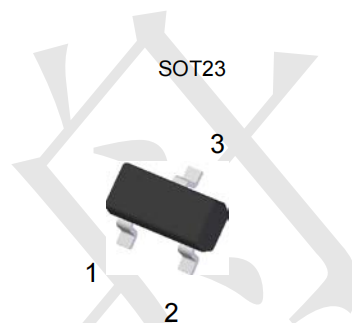
## Applications

- \* PostRegulatorfor SwitchingDC-DCConverter
- \* BiasSupplyfor Digitaland AnalogCircuits
- \* HomeAppliances
- \* actoryand BuildingAutomation

## Typical Application



## Dimensions and Pin Configuration



1. OUT
2. IN
3. GND

**Marking :P8xx**

**P8= is part number, fixed**  
**xx= is internal code**

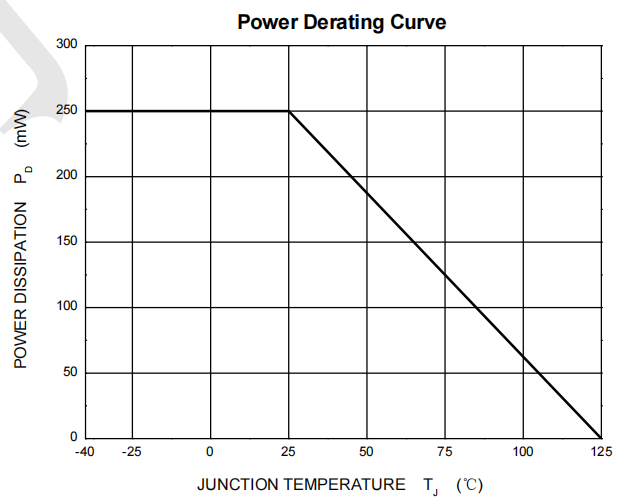
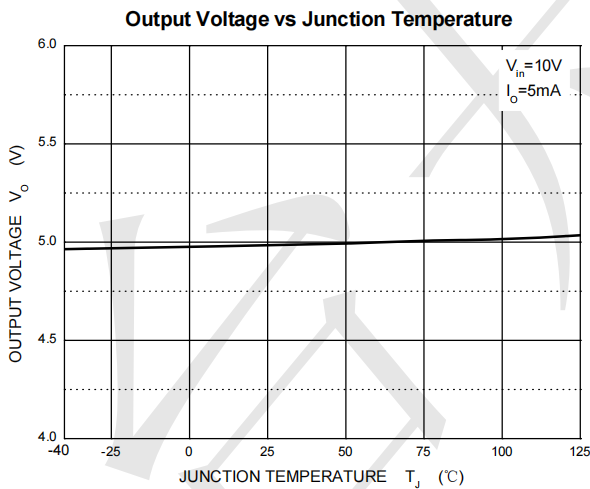
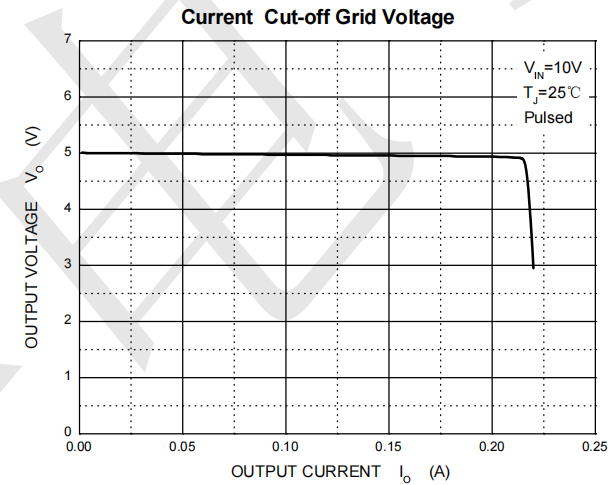
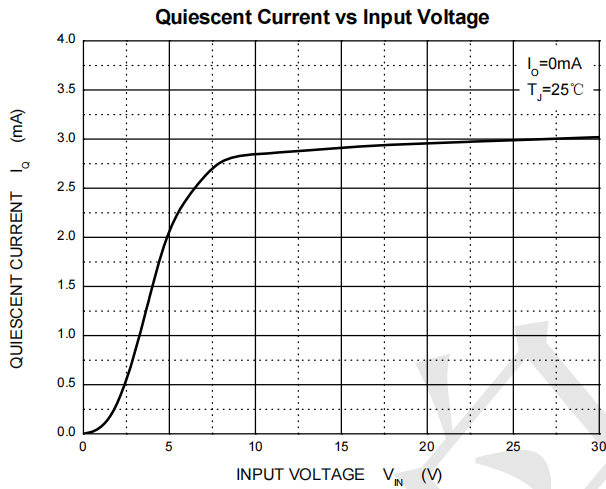
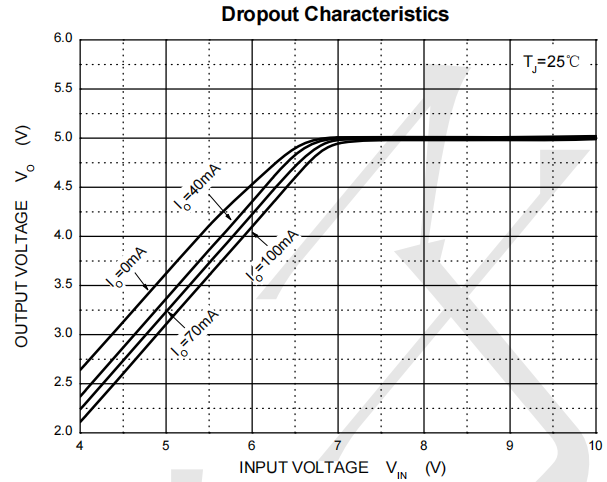
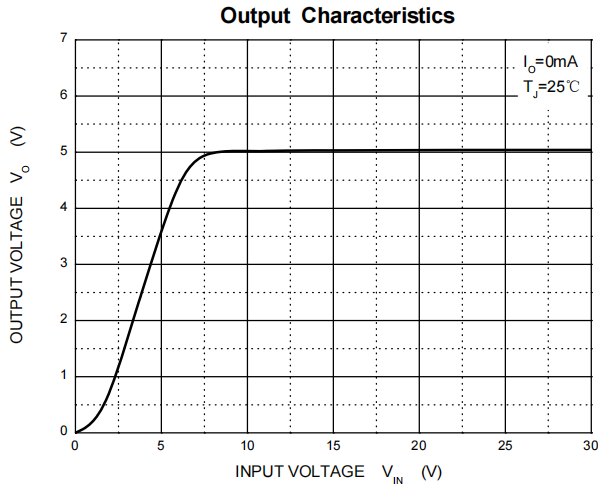
**Absolute Maximum Ratings** (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	30	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	160	°C/W
Operating Junction Temperature Range	$T_{OPR}$	-40~+125	°C
Storage Temperature Range	$T_{STG}$	-65~+150	°C

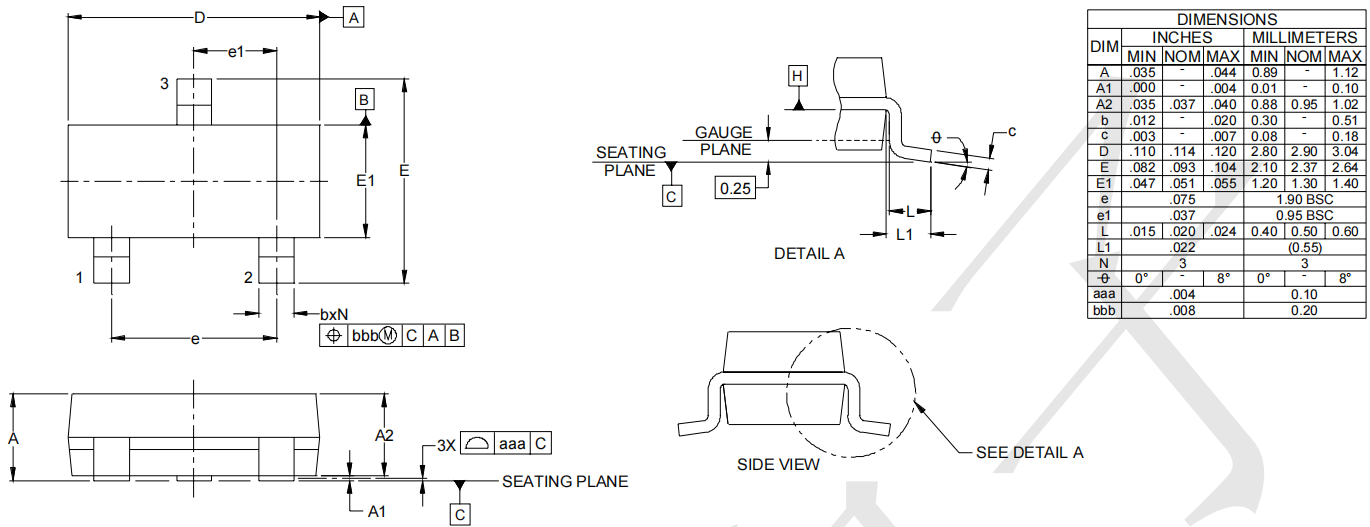
**Electrical Characteristics** (TA=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit		
			25°C	4%	4.80	5.0	5.20	V
				3%	4.85	5.0	5.15	V
				2%	4.90	5.0	5.10	V
Output voltage	$V_o$	7V≤Vi≤20V, Io=1mA~40mA	0-125°C	4.75	5.0	5.25	V	
		Io=1mA~70mA		4.75	5.0	5.25	V	
Load Regulation	$\Delta V_o$	Io=1mA~100mA	25°C		15	60	mV	
		Io=1mA~40mA	25°C		8	30	mV	
Line regulation	$\Delta V_o$	7V≤Vi≤20V	25°C		32	150	mV	
		8V≤Vi≤20V			26	100	mV	
Quiescent Current	$I_q$		25°C		3.8	6	mA	
Quiescent Current Change	$\Delta I_q$	8V≤Vi≤20V	0-125°C			1.5	mA	
	$\Delta I_q$	1mA≤Vi≤40mA	0-125°C			0.1	mA	
Output Noise Voltage	$V_N$	10Hz≤f≤100KHz	25°C		42		μV/Vo	
Ripple Rejection	RR	8V≤Vi≤20V, f=120Hz	0-125°C	41	49		dB	
Dropout Voltage	$V_d$		25°C		1.7		V	

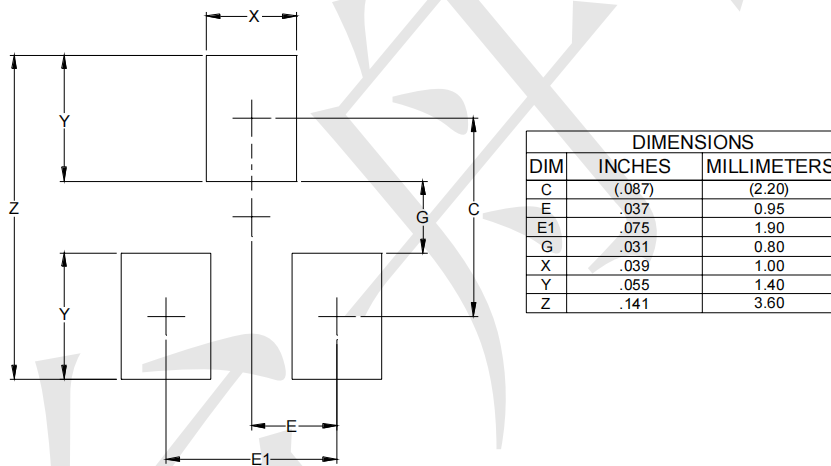
## Characteristic Curves



### Outline Drawing - SOT23



### Land Pattern - SOT23



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