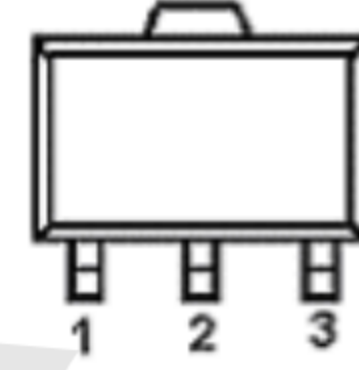


■ Features

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_O: 5V$
- Continuous total dissipation
 $P_D: 0.6 W (T_a = 25^\circ C)$



1.OUT
2.GND
3.IN

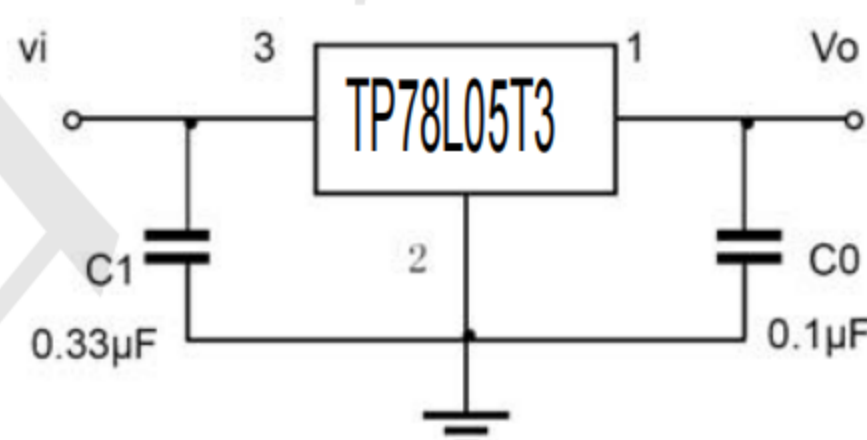
■ Absolute Maximum Ratings $T_a = 25^\circ C$

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

■ Electrical Characteristics ($V_i=10V, I_o=40mA, 0^\circ C < T_j < 125^\circ C, C_1=0.33 \mu F, C_o=0.1 \mu F$, unless otherwise specified)

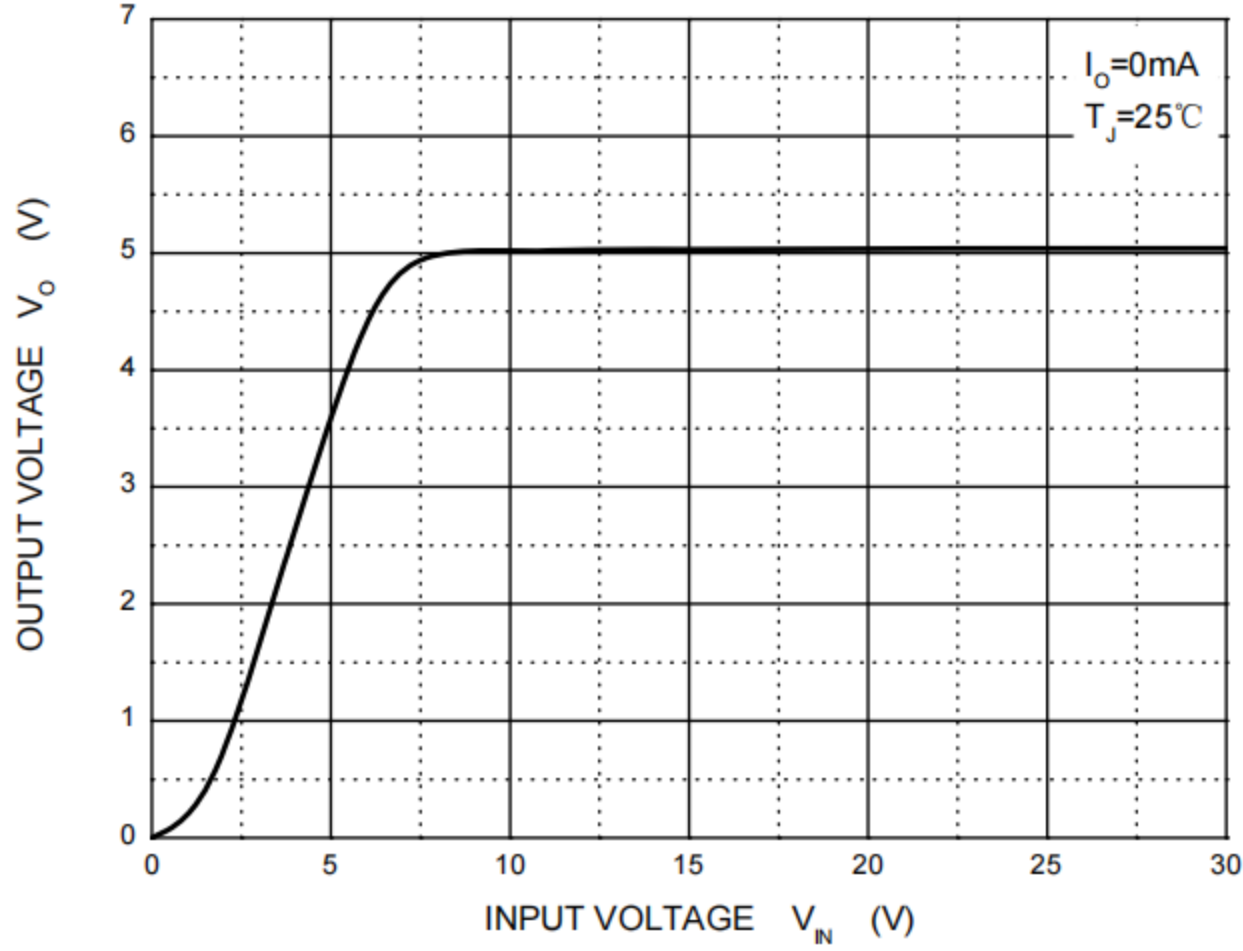
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit		
Output voltage	V_o		25 $^\circ C$	4.80	5.0	5.20	V	
				4.85	5.0	5.15	V	
		$7V \leq V_i \leq 20V, I_o = 1mA \sim 40mA$	0-125 $^\circ C$		4.90	5.0	5.10	V
				$I_o = 1mA \sim 70mA$	4.75	5.0	5.25	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA$	25 $^\circ C$	15	60	mV		
		$I_o = 1mA \sim 40mA$	25 $^\circ C$	8	30	mV		
Line regulation	ΔV_o	$7V \leq V_i \leq 20V$	0-125 $^\circ C$	32	150	mV		
		$8V \leq V_i \leq 20V$	25 $^\circ C$	26	100	mV		
Quiescent Current	I_q		25 $^\circ C$	3.8	6	mA		
Quiescent Current Change	ΔI_q	$8V \leq V_i \leq 20V$	0-125 $^\circ C$		1.5	mA		
		$1mA \leq I_o \leq 40mA$	0-125 $^\circ C$		0.1			
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	25 $^\circ C$	42		$\mu V/V_o$		
Ripple Rejection	RR	$8V \leq V_i \leq 20V, f=120Hz$	0-125	41	49	dB		
Dropout Voltage	V_d		25 $^\circ C$	1.7		V		

■ Typical application.

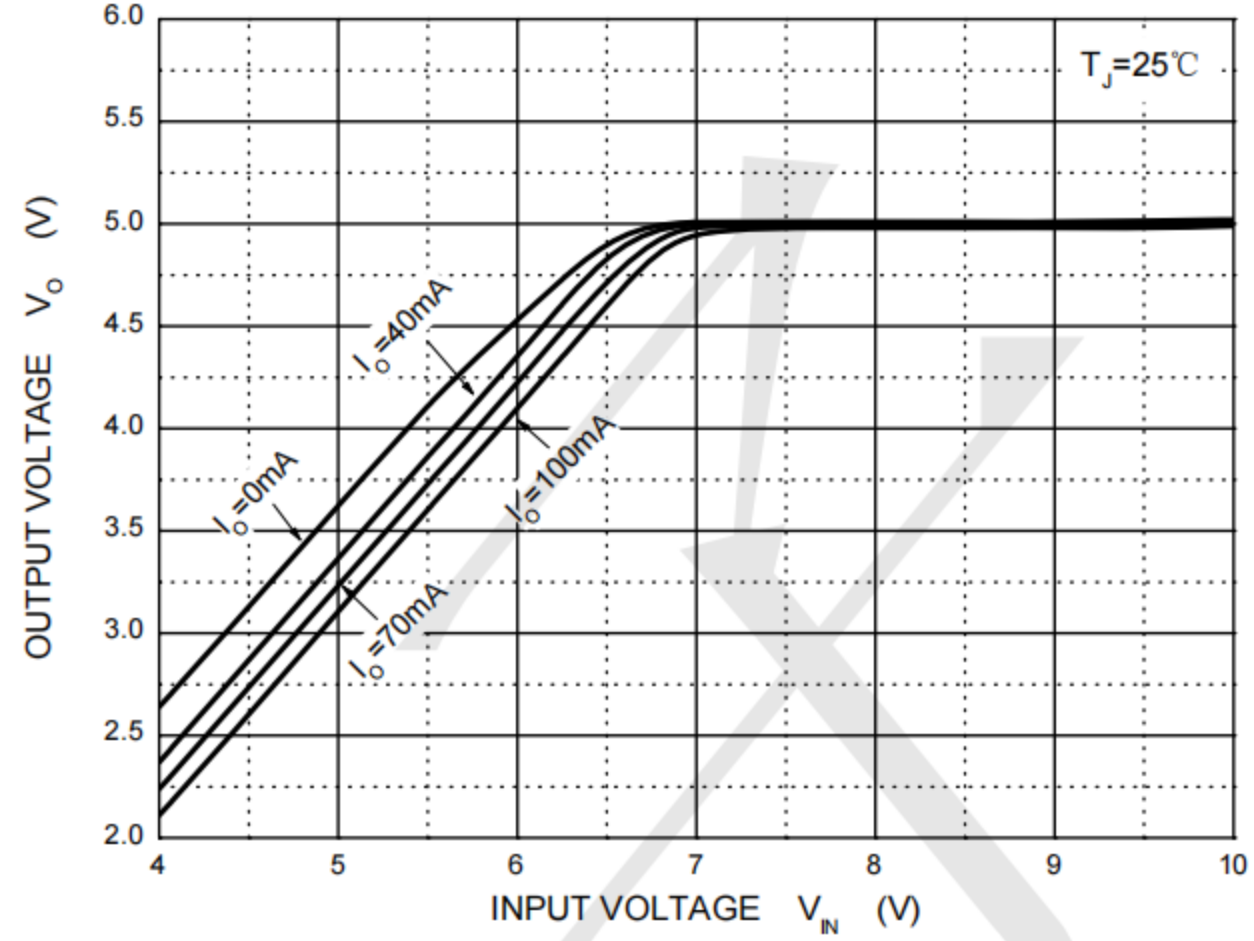


Typical Electrical Characteristic Curves

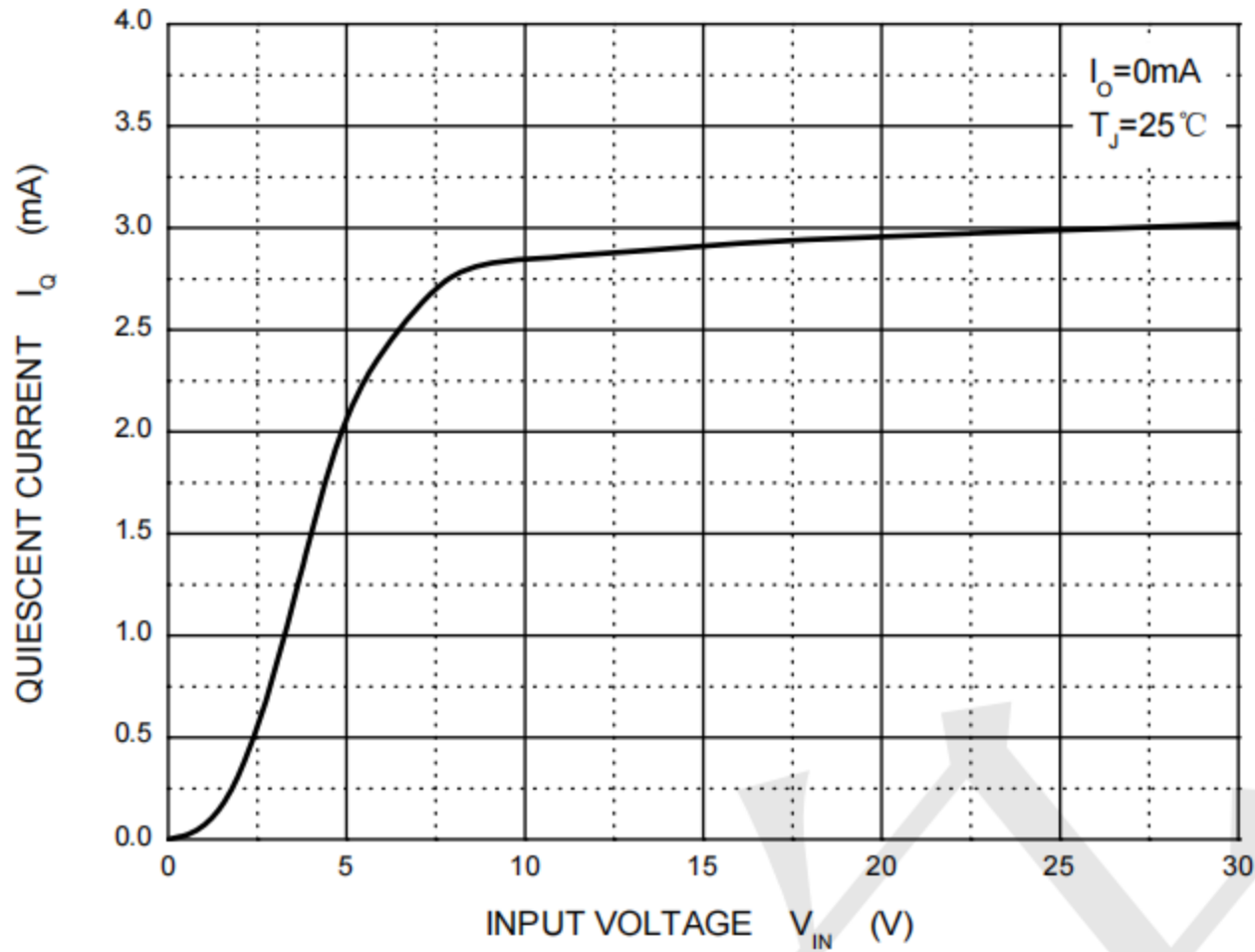
Output Characteristics



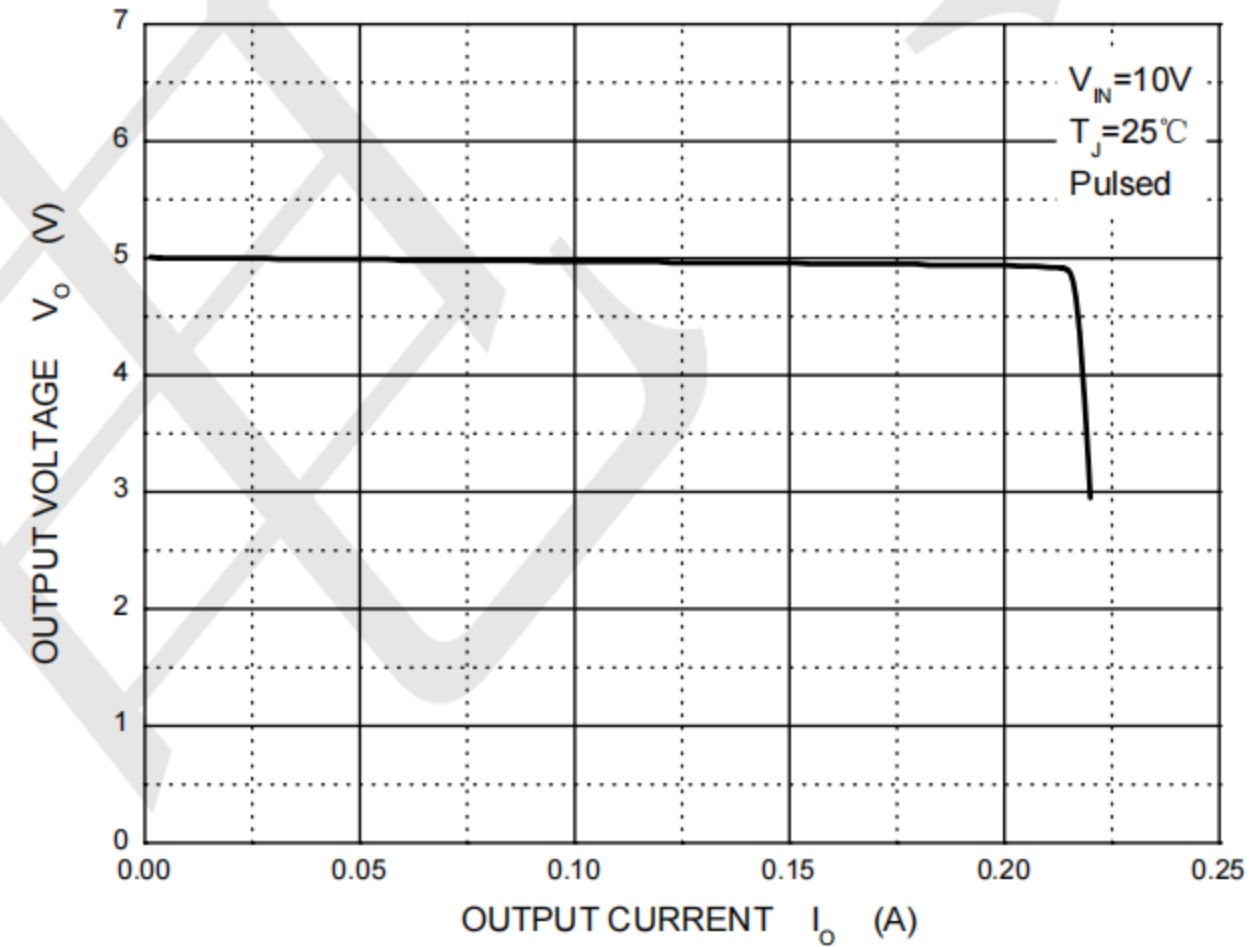
Dropout Characteristics



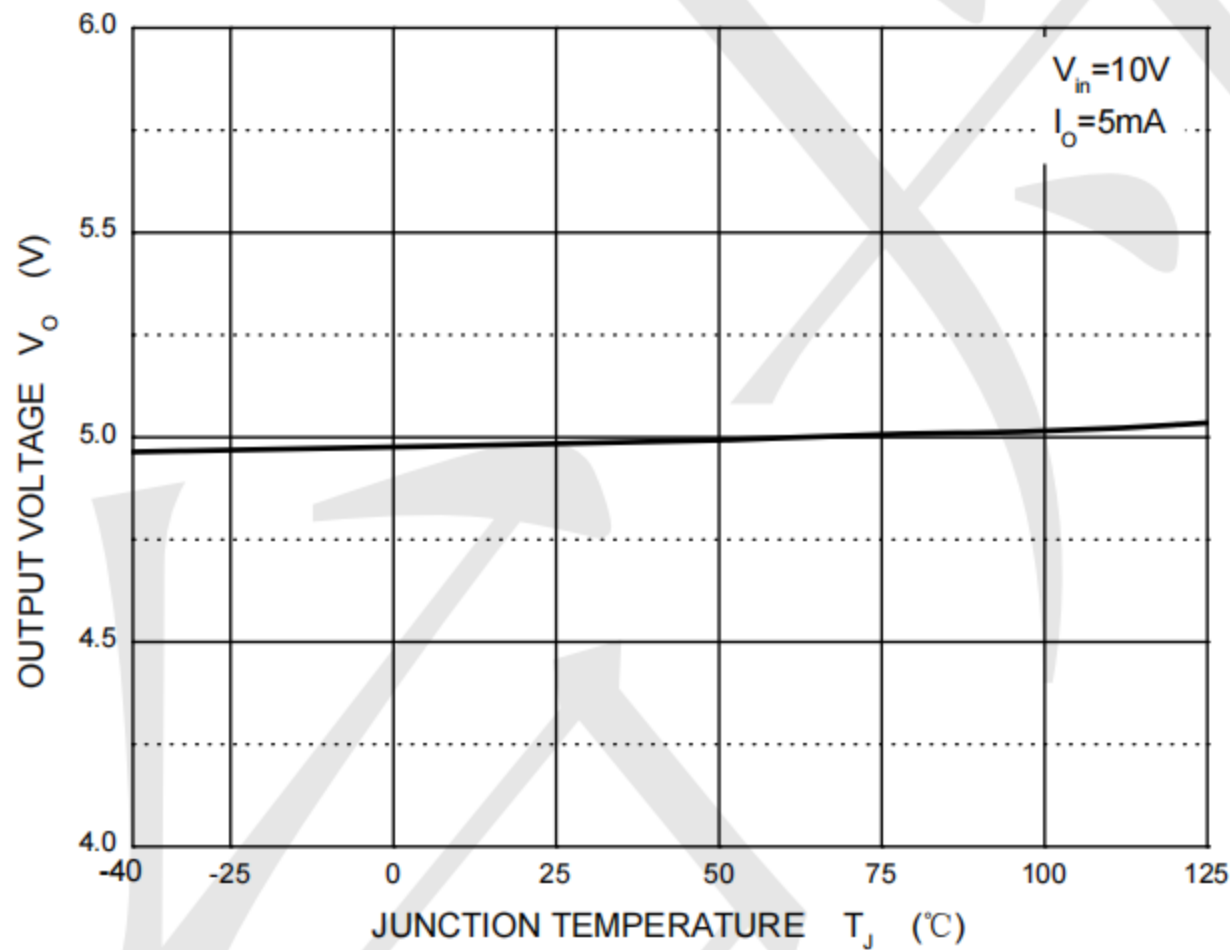
Quiescent Current vs Input Voltage



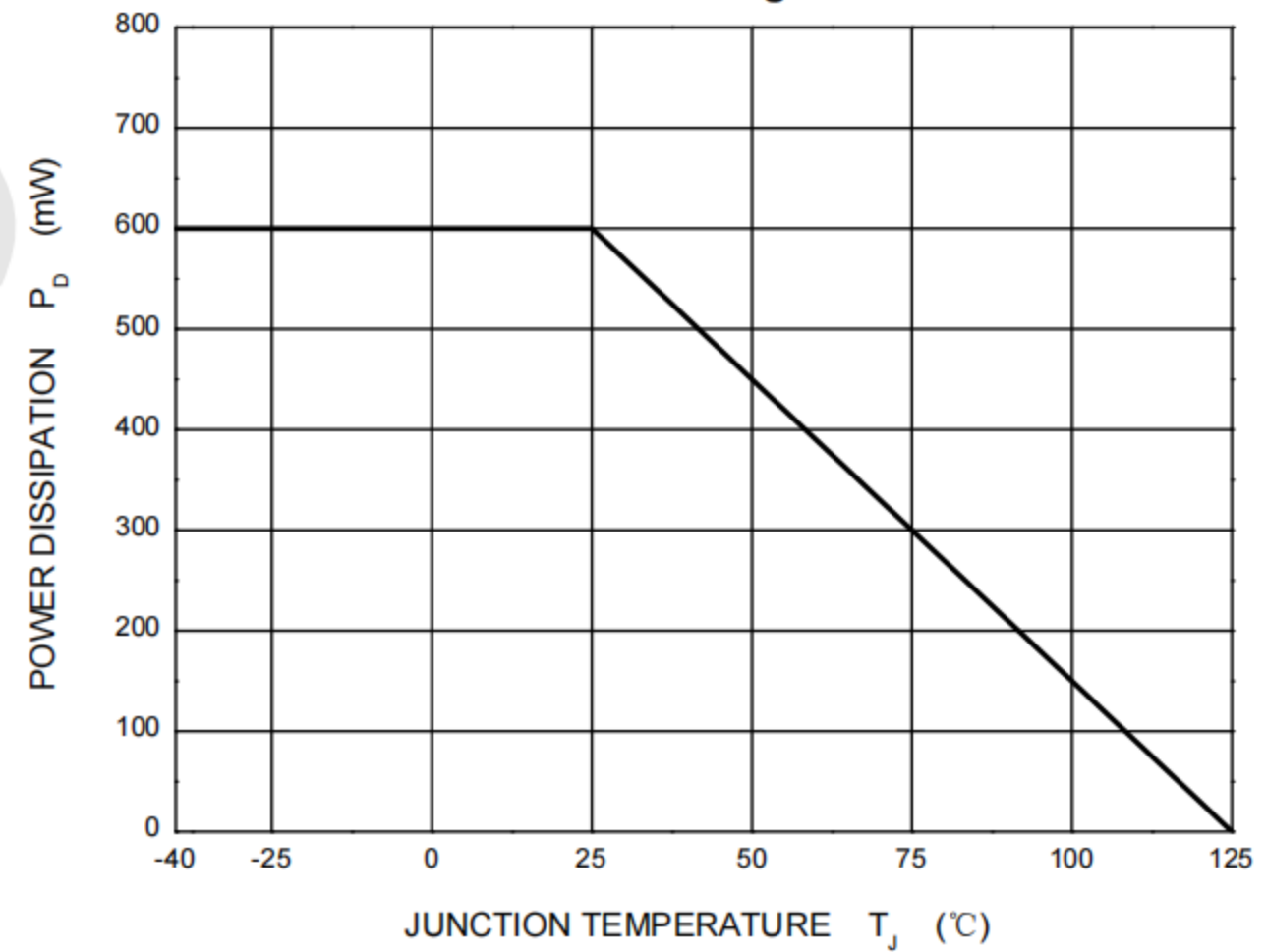
Current Cut-off Grid Voltage



Output Voltage vs Junction Temperature



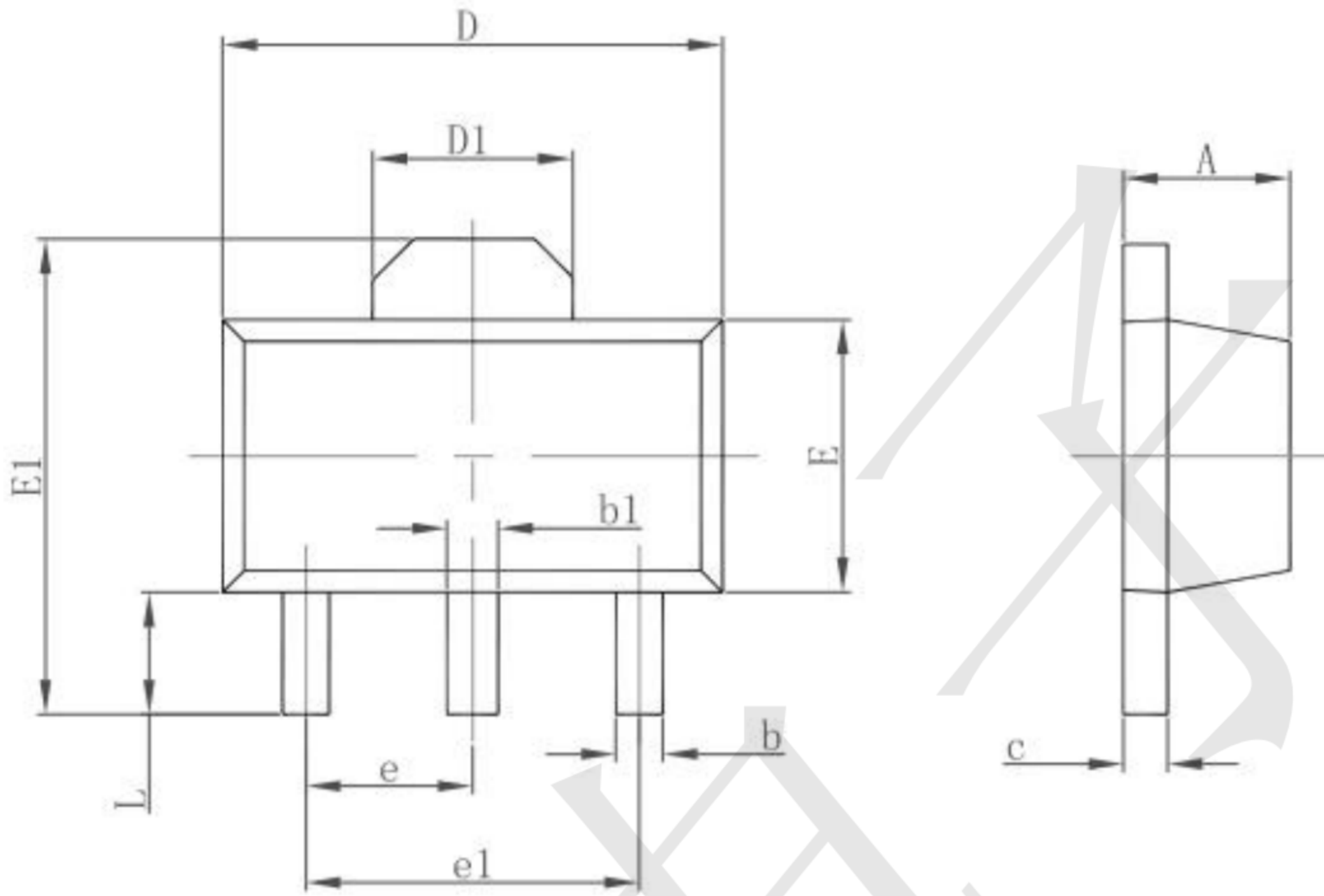
Power Derating Curve





Package information

SOT89-3



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

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