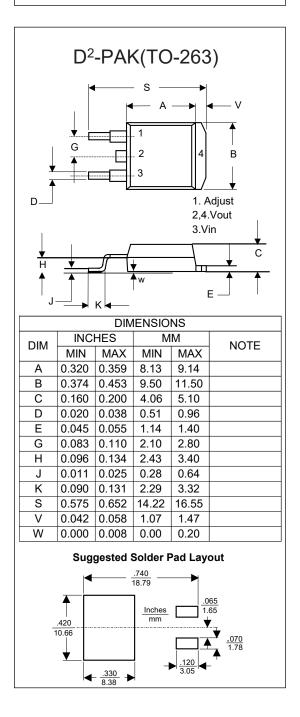


Features

- Output Voltage Range: 1.2V to 37V
- Output Current In Excess of 1.5A
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Adjustable Voltage Regulators



Maximum Ratings

Parameter	Symbol	Value	Unit
Input –Output Voltage Differential	$V_{I} - V_{O}$	40	V
Power Dissipation	P _D	Internally Limited	W
Operating Junction Temperature Range	T _{OPR}	0~125	°C
Storage Temperature Range	T _{STG}	-65~125	°C
Temperature Coefficient of Output Voltage	∆Vo/∆T	±0.02	%/°C
Lead Temperature	T _{LEAD}	230	°C

Marking Code:LM317



Electrical Characteristics @ 25°C (V_i-V_o=5V, I_o=500mA, I_{MAX}=1.5A, P_{MAX}=20W Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Reference Input Voltage	V _{ref}	3V≤V _i -V _o ≤40V,10mA≤I _o ≤I _{max}	1.20	1.25	1.30	V
Load Regulation	Rload	10mA≤I _O ≤I _{max} V _O <5v V _O ≥5v	-	18	25 mV%V	mV%V
			-	0.4	0.5 mV%V	mV%V
		10mA≤I _O ≤I _{max} V _O <5v V _O ≥5v	-	40	70 mV%V	mV%V
			-	0.8	1.5 mV%V	mV%V
Load Regulation	Rline	3V≤V _i -V _o ≤40V	-	0.01	0.04	%/V
	Rine	3V≤V _i -V _o ≤40V	-	0.02	0.07	%/V
Adjustment Pin Current	Ι _Q		-	46	100	μA
Adjustment Pin Current Charge	I _{q(V)}	V _i -V _o =3V to 40V, I _o =10mA to I _{max}	-	2	5	μA
Minimun Load Current to Main Regulation	II	V _i -V _o =40V	-	3.5	12	mA
Ripple Rejection	RR	V _o =10V 66	66	60		dB
		F=120Hz, C _{ADJ} =10µF	-10μF	75		
Temperature Stability	ST⊤		-	0.7%/V ₀	-	
RMS Noise,% of V _{OUT}	eN	10Hz-10kHz	-	0.003%/V _o	0.01%/V ₀	
Longterm, T _J =T _{HIGH}	ST	Ta=25°C for end point measurements,1000HR	-	0.3%	1%	
Thermal Resistance Junction to Case	R _{JC}	-	-	5	-	°C/W



Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:800pcs/Reel		
Part Number-BP	Bulk: 50pcs/Box		

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF Adding "-HF" Suffix for Halogen Free, eg. Part Number-BP-HF

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