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The MIC5365/6 is an advanced general purpose linear regulator offering high power supply rejection (PSRR) in an ultra-small 1mm x 1mm package. The MIC5366 includes an auto-discharge feature that is activated when the enable pin is low. The MIC5365/6 is capable of sourcing 150mA output current and offers high PSRR, making it a great solution for any portable electronic application.



Ideal for battery-powered applications, the MIC5365/6 offers 2% initial accuracy, low dropout voltage (180mV at 150mA), and low ground current (typically 32µA). The MIC5365/6 can also be put into a zero off-mode current state, drawing virtually no current when disabled.

The MIC5365/6 is available in several advanced packages including a lead-free (RoHS-compliant) 1mm x 1mm Thin MLF[®], occupying only 1mm² of PCB area, a 75% reduction in board area compared to SC-70 and 2mm x 2mm MLF[®] packages. It is also available in an SC-70-5 package.

The MIC5365/6 has an operating junction temperature range of -40°C to 125°C.

Features

- Tiny 1mm x 1mm Thin MLF[®] or SC-70-5 packages
- Input voltage range: 2.5V to 5.5V
- 150mA guaranteed output current
- Stable with ceramic output capacitors
- Low dropout voltage: 180mV at 150mA
- Excellent Load/Line Transient Response
- Low quiescent current: 32µA
- High PSRR: 70dB
- Output discharge circuit (MIC5366)
- High output accuracy:
 - ±2% initial accuracy
- Thermal shutdown and current limit protection

Parameter Name	Value
Product Type	Single LDOs
# of Out	1
Rated IOUT	150mA
VIN Min (V)	2.5
VIN Max (V)	5.5
VOUT (V)	1.5, 1.8, 2.0, 2.5, 2.6, 2.7, 2.8, 2.85, 2.9, 3.0, 3.3
Voltage Drop Typ (mV)	155
Vd-out @ Rated Iout Typ (mV)	155
IGND Typ (µA)	32µA
Tol Typ %	±2
Noise (µV) rms	200
PSRR 1 kHz (dB)	80
Load Discharge	Yes
Turn On Time Typ (µs)	125
Ilim Typ (mA)	0.325
Ilim Max (mA)	0.55
VEN (V)	1.2
Θja (C/W)	256.5, 250

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= Sample a part = Buy a part All pricing shown in USD only.

Part Number	Leads	Package Type	Temp Range	Packing	1-25	26-99	100+	1000-4999	5000+	Buy	Sample
MIC5366-1.8YC5-TR	5	SC70	-40C to +125C	T/R	0.21	0.18	0.16	0.13 *	0.12 *		
MIC5366-1.8YMT-TZ	4	UDFN	-40C to +125C	T/R	0.21	0.18	0.16	0.13 *	0.12 *		
MIC5366-2.7YC5-TR	5	SC70	-40C to +125C	T/R	**	**	**	**	**		
MIC5366-2.8YC5-TR	5	SC70	-40C to +125C	T/R	0.21	0.18	0.16	0.13 *	0.12 *		
MIC5366-2.8YMT-TZ	4	UDFN	-40C to +125C	T/R	0.21	0.18	0.16	0.13 *	0.12 *		
MIC5366-3.0YMT-TZ	4	UDFN	-40C to +125C	T/R	0.21	0.18	0.16	0.13 *	0.12 *		
MIC5366-3.3YC5-TR	5	SC70	-40C to +125C	T/R	**	**	**	**	**		
MIC5366-3.3YMT-TZ	4	UDFN	-40C to +125C	T/R	0.21	0.18	0.16	0.13 *	0.12 *		

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