

Features

- Output voltage range: 1.2V to 3.6V
- $I_{OUT(max)}$: 300mA
- PSRR: 70dB at 1KHz
- Standby current: 70 μ A (typ.)
- Shutdown current: 1 μ A (max)
- ESD Protected up to 2KV(HBM),200V(CDM)

Applications

- CDMA / GSM
- PDAs/MP3
- WLAN, Bluetooth
- Cordless phone
- Battery-powered system

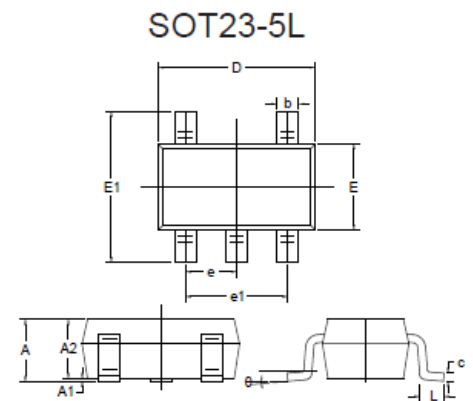
Description

The MCL9193K5 series are high ripple rejection, low-power consumption, low-dropout CMOS step-down voltage regulators with over-current and short circuit protection. These devices have very low quiescent bias current (70 μ A typ.), they can delivery 300mA of output current with very small input and output voltage differences, and still maintain good regulation. Due to the small voltage difference between the input and output and the low quiescent bias current, these devices are especially suitable for battery-operated products such as computers, consumer products and industrial equipment, which want to prolong the useful battery life.

Part Number and Marking Code

Part No	Package	Marking
MCL9193K512	SOT23-5L	DA=G3K
MCL9193K515	SOT23-5L	DS=J2T
MCL9193K518	SOT23-5L	DC=E2H
MCL9193K530	SOT23-5L	DK=06L
MCL9193K533	SOT23-5L	DE=A1D

300mA Low Drop-out Voltage Regulators



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.041	0.049	1.05	1.25	
A1	0.000	0.004	0.00	0.10	
A2	0.041	0.045	1.05	1.15	
b	0.012	0.020	0.30	0.50	
c	0.004	0.008	0.10	0.20	
D	0.111	0.119	2.82	3.02	
E	0.059	0.067	1.50	1.70	
E1	0.104	0.116	2.65	2.95	
e	0.037(BSC)		0.950(BSC)		
e1	0.071	0.079	1.80	2.00	
L	0.012	0.024	0.30	0.60	
θ	0°	8°	0°	8°	

Suggested Solder Pad Layout

