

## Low current consumption 150mA regulator IC

## MM3534, MM3755 Series

### Outline

This IC is a low current consumption 150mA LDO.  
The IC can be better low current consumption and load transient by bias boost circuit. Therefore the IC is ideal for mobile applications.

### Applications

- (1) Smart phones
- (2) Tablet PCs
- (3) Mobile phones
- (4) Portable music Players
- (5) Digital still cameras
- (6) Portable games

### Features (Unless otherwise specified, Ta=+25°C)

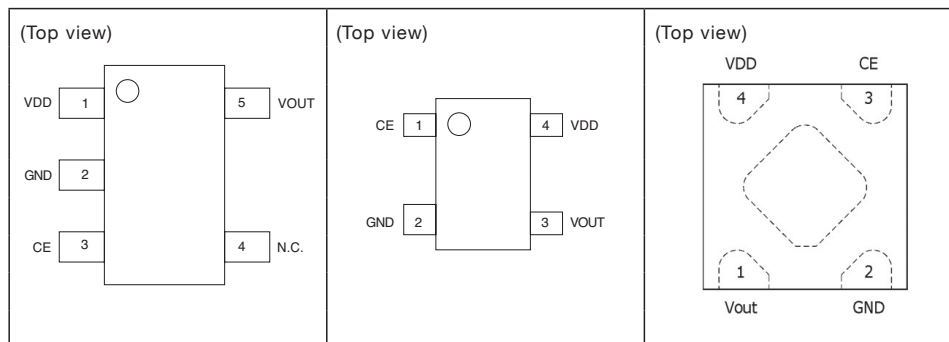
- (1) Input voltage range .....1.7V to 6.0V
- (2) Output voltage range.....1.2V to 5.0V
- (3) Output voltage accuracy ..... $V_{OUT} \pm 0.8\%$  ( $V_{OUT} > 2V$ )
- (4) Maximum output current.....150mA
- (5) Current consumption.....0.9 $\mu$ A typ. (No-Load)  
 $V_{OUT} = 1.2V$  to  $3.3V$   
 0.1 $\mu$ A typ. (OFF)
- (6) Output capacitor .....0.1 $\mu$ F
- (7) Dropout voltage.....0.24V typ.  
 $(I_o = 150mA, V_{OUT} = 3V)$
- (8) Output short-circuit current....100mA typ.
- (9) Line regulation .....0.1% / V max.
- (10) Load regulation.....10mV typ. ( $I_o = 1mA$  to  $150mA$ )
- (11) Ripple rejection.....50dB typ. ( $f = 1kHz$ )

### Pin assignment

#### SOT-25A

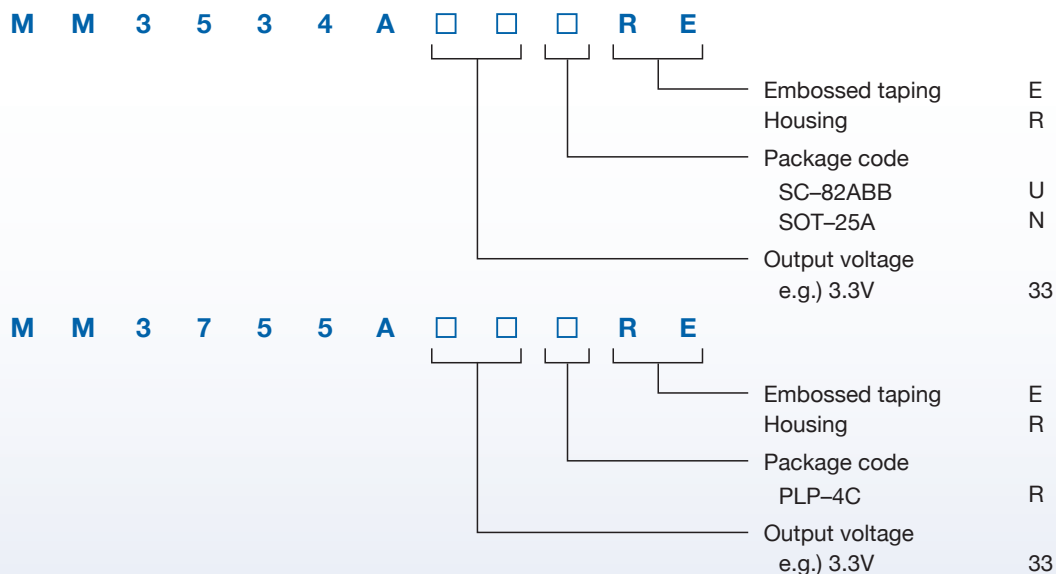
#### SC-82ABB

#### PLP-4C



Pin no.	SOT-25A	SC-82ABB	PLP-4C
1	VDD	CE	VOUT
2	GND	GND	GND
3	CE	VOUT	CE
4	N.C.	VDD	VDD
5	VOUT	---	---

### Model name structure



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Selection guide

Output Voltage	Accuracy	Parts No.			Dropout Voltage (Typ.) I <sub>o</sub> =150mA	Output Current	No-Load Input Current (Typ.)
		SOT-25A Package (3,000pcs/Reel)	SC-82ABB Package (3,000pcs/Reel)	PLP-4C Package (10,000pcs/Reel)			
1.2V	±16mV	MM3534A12NRE	MM3534A12URE	MM3755A12RRE	0.76V	150mA	0.9µA
1.3V	±16mV	MM3534A13NRE	MM3534A13URE	MM3755A13RRE	0.76V	150mA	0.9µA
1.4V	±16mV	MM3534A14NRE	MM3534A14URE	MM3755A14RRE	0.76V	150mA	0.9µA
1.5V	±16mV	MM3534A15NRE	MM3534A15URE	MM3755A15RRE	0.53V	150mA	0.9µA
1.6V	±16mV	MM3534A16NRE	MM3534A16URE	MM3755A16RRE	0.53V	150mA	0.9µA
1.7V	±16mV	MM3534A17NRE	MM3534A17URE	MM3755A17RRE	0.44V	150mA	0.9µA
1.8V	±16mV	MM3534A18NRE	MM3534A18URE	MM3755A18RRE	0.44V	150mA	0.9µA
1.9V	±16mV	MM3534A19NRE	MM3534A19URE	MM3755A19RRE	0.44V	150mA	0.9µA
2.0V	±16mV	MM3534A20NRE	MM3534A20URE	MM3755A20RRE	0.34V	150mA	0.9µA
2.1V	±0.8%	MM3534A21NRE	MM3534A21URE	MM3755A21RRE	0.34V	150mA	0.9µA
2.2V	±0.8%	MM3534A22NRE	MM3534A22URE	MM3755A22RRE	0.34V	150mA	0.9µA
2.3V	±0.8%	MM3534A23NRE	MM3534A23URE	MM3755A23RRE	0.34V	150mA	0.9µA
2.4V	±0.8%	MM3534A24NRE	MM3534A24URE	MM3755A24RRE	0.34V	150mA	0.9µA
2.5V	±0.8%	MM3534A25NRE	MM3534A25URE	MM3755A25RRE	0.28V	150mA	0.9µA
2.6V	±0.8%	MM3534A26NRE	MM3534A26URE	MM3755A26RRE	0.28V	150mA	0.9µA
2.7V	±0.8%	MM3534A27NRE	MM3534A27URE	MM3755A27RRE	0.28V	150mA	0.9µA
2.8V	±0.8%	MM3534A28NRE	MM3534A28URE	MM3755A28RRE	0.24V	150mA	0.9µA
2.9V	±0.8%	MM3534A29NRE	MM3534A29URE	MM3755A29RRE	0.24V	150mA	0.9µA
3.0V	±0.8%	MM3534A30NRE	MM3534A30URE	MM3755A30RRE	0.24V	150mA	0.9µA
3.1V	±0.8%	MM3534A31NRE	MM3534A31URE	MM3755A31RRE	0.24V	150mA	0.9µA
3.2V	±0.8%	MM3534A32NRE	MM3534A32URE	MM3755A32RRE	0.24V	150mA	0.9µA
3.3V	±0.8%	MM3534A33NRE	MM3534A33URE	MM3755A33RRE	0.24V	150mA	0.9µA
3.4V	±0.8%	MM3534A34NRE	MM3534A34URE	MM3755A34RRE	0.24V	150mA	1.2µA
3.5V	±0.8%	MM3534A35NRE	MM3534A35URE	MM3755A35RRE	0.24V	150mA	1.2µA
3.6V	±0.8%	MM3534A36NRE	MM3534A36URE	MM3755A36RRE	0.24V	150mA	1.2µA
3.7V	±0.8%	MM3534A37NRE	MM3534A37URE	MM3755A37RRE	0.24V	150mA	1.2µA
3.8V	±0.8%	MM3534A38NRE	MM3534A38URE	MM3755A38RRE	0.24V	150mA	1.2µA
3.9V	±0.8%	MM3534A39NRE	MM3534A39URE	MM3755A39RRE	0.24V	150mA	1.2µA
4.0V	±0.8%	MM3534A40NRE	MM3534A40URE	MM3755A40RRE	0.24V	150mA	1.2µA
4.1V	±0.8%	MM3534A41NRE	MM3534A41URE	MM3755A41RRE	0.24V	150mA	1.2µA
4.2V	±0.8%	MM3534A42NRE	MM3534A42URE	MM3755A42RRE	0.24V	150mA	1.2µA
4.3V	±0.8%	MM3534A43NRE	MM3534A43URE	MM3755A43RRE	0.24V	150mA	1.2µA
4.4V	±0.8%	MM3534A44NRE	MM3534A44URE	MM3755A44RRE	0.24V	150mA	1.2µA
4.5V	±0.8%	MM3534A45NRE	MM3534A45URE	MM3755A45RRE	0.24V	150mA	1.2µA
4.6V	±0.8%	MM3534A46NRE	MM3534A46URE	MM3755A46RRE	0.24V	150mA	1.2µA
4.7V	±0.8%	MM3534A47NRE	MM3534A47URE	MM3755A47RRE	0.24V	150mA	1.2µA
4.8V	±0.8%	MM3534A48NRE	MM3534A48URE	MM3755A48RRE	0.24V	150mA	1.2µA
4.9V	±0.8%	MM3534A49NRE	MM3534A49URE	MM3755A49RRE	0.24V	150mA	1.2µA
5.0V	±0.8%	MM3534A50NRE	MM3534A50URE	MM3755A50RRE	0.24V	150mA	1.2µA

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