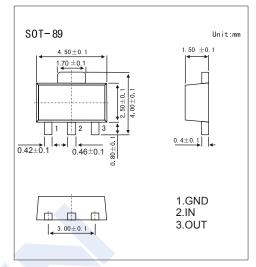
Three-Terminal Negative Voltage Regulator KA090Q05

■ Features

- Maximum Output current Iom: 0.1 A
- Output voltage Vo: 5 V
- Continuous total dissipation Pp: 0.5 W
- Marking Code: Q95



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Input Voltage	Vi	-30	V
Operating Junction Temperature Range	Topr	-55 to +125	$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150	$^{\circ}$

■ Electrical Characteristics (Vi=-10V,lo=40mA,0°C<Tj<125°C,Ci=0.33 µ F,Co=0.1 µ F,unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output voltage	Vo	Tj=25°C	-4.8	-5.0	-5.2	V
		-7V≪Vı≪-20V, Io=1mA-40mA	-4.75	-5.0	-5.25	V
		Io=1mA-70mA	-4.75	-5.0	-5.25	V
Load regulation	△Vo	Tj=25℃, Io=1mA-100mA		11	60	mV
		Tj=25℃, lo=1mA-40mA		5.0	30	mV
Line regulation	△Vo	-7V≪V।≪-20V, Tj=25℃		32	150	mV
		-8V≪V।≪-20V, Tj=25°C		26	100	mV
Quiescent current	Iq	Tj=25°C		3.8	6	mA
Quiescent current change	△lq	0℃ <tj<125℃, -8v≪v।≪-20v<="" td=""><td></td><td></td><td>1.5</td><td>mA</td></tj<125℃,>			1.5	mA
	△lq	0℃ <tj<125℃,1ma≤lo≤40ma< td=""><td></td><td></td><td>0.1</td><td>mA</td></tj<125℃,1ma≤lo≤40ma<>			0.1	mA
Output noise voltage	VN	10Hz≤f≤100KHz,Tj=25°C		42		uV
Ripple rejection	RR	-8V≤V।≤-18V,f=120Hz	41	49		dB
Dropout voltage	Vd	Tj=25℃,		1.7		V

■ Typical Application

