AKM Semiconductor, Inc.

End of Life Notice

Document ID : AKMSPK160921A
Product affected : Listed below
Date of notification : 9/21/2016
Type of change : N/A
Reason for change : N/A
Last order date : 11/30/2016
Last shipment date : 3/31/2017

Description :

AKM will discontinue below indicated product.

Product affected :

CQ2066 (Open loop type current sensor)

Replacement part : (Drop-in replacement)

CQ2366

*Please refer to detailed comparison chart in page 2.

Availability of replacement part (CQ2366) :

Sample : Now
Mass production : December 2016

AKM will consider this notice fully noticed and approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice.

AKM Semiconductor, Inc.
1731 Technology Drive, Suite 500
San Jose, CA 95110

Comparison chart

		CQ2366				CQ2066				
		Conditions	min	typ	max	Conditions	min	typ	max	
Supply Voltage	VDD		4.5	5	5.5		4.5	5	5.5	V
Output Current	IOUT		−0.5		0.5		−0.5		0.5	mA
Operating Ambient Temperature	Ta		−40		110		−40		90	°C
Maximum Primary Current (RMS)	I_{RMSmax}		-50		50		−50		50	A
Current Consumption	I_{DD}	No Loads		8.3	11	No Loads			9	mA
Sensitivity	V_h		11.8	12	12.2		11.7	12	12.3	mV/A
Offset Voltage	V_{of}	I_{IN}=0A	2.46	2.5	2.54	I_{IN}=0A	2.466	2.5	2.54	V
Linear Sensing Range	I_{NS}		−170		170		−170		170	A
Linearity Error	ρ		−1		1		−1		1	%F.S.
Output Noise	V_{Nrms}	100Hz to 4MHz		0.5		100Hz to 4MHz			2.1	mVrms
Maximum Temperature Drift of Sensitivity	$V_{h\text{-}dmax}$	T_a=−40-110°C		±0.5		T_a=−40-90°C		±2		%
Maximum Temperature Drift of Offset voltage	$V_{of\text{-}dmax}$	T_a=−40~110°C, I_{IN}=0A		±4		T_a=−40-90°C		±4.6		mV
Rise Response Time	t_r	I_{IN} 90% → V_{OUT} 90% CL=100pF		1.5		I_{IN} 90% → V_{OUT} 90% CL=100pF		1		μs
Fall Response Time	t_f	I_{IN} 10% → V_{OUT} 10% CL=100pF		1.5		I_{IN} 10% → V_{OUT} 10% CL=100pF		1		μs
Bandwidth	f_T	−3dB, C_L=100pF		190		−3dB, C_L=100pF		400		kHz
Ratiometricity Error of Sensitivity	$V_{h\text{-}R}$	V_{DD}=4.5V~5.5V	−1		1	VDD=4.5V~5.5V	−1		1	%
Ratiometricity Error of Offset Voltage	$V_{of\text{-}R}$	V_{DD}=4.5V~5.5V IIN=0A	−0.5		0.5	V_{DD}=4.5V~5.5V IIN=0A	−1		1	%