

MC - 55SH

(MC04AP050AI-C1KB15)

Absolute Maximum Ratings (**Not Recommended**¹)

Parameter	Symbol	Value	Unit
		50A	
Positive Supply Voltage	V _{CC}	+12 ~ +18	V
Negative Supply Voltage	V _{EE}	-12 ~ -18	V
Maximum Output Load (@25°C) ²	R _{Lmax}	100	Ω
Maximum Primary Current (@) R _{Lmax}	I _{Pmax}	± 80	A
r. m. s. Voltage for AC Isolation (60Hz)	V _{Dmax}	1,500	V _{AC}
Electrostatic Discharge	V _{discharge}	3	kV
Ambient Operating Temperature	T _A	-30~85	°C
Ambient Storage Temperature	T _S	-30~95	°C

NOTES 1. Maximum ratings are those values beyond which device damage can occur.

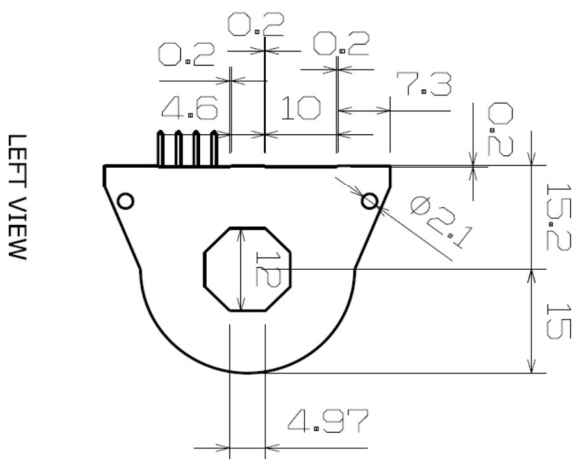
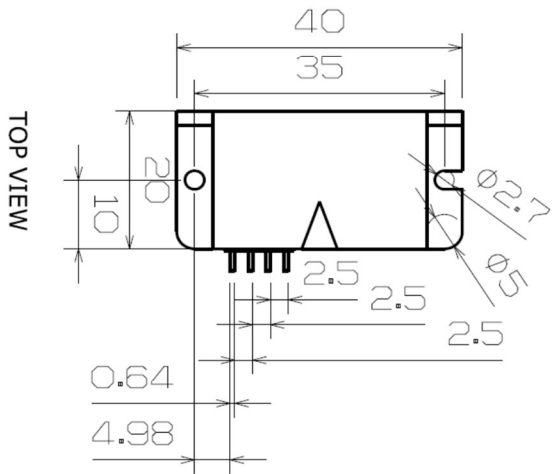
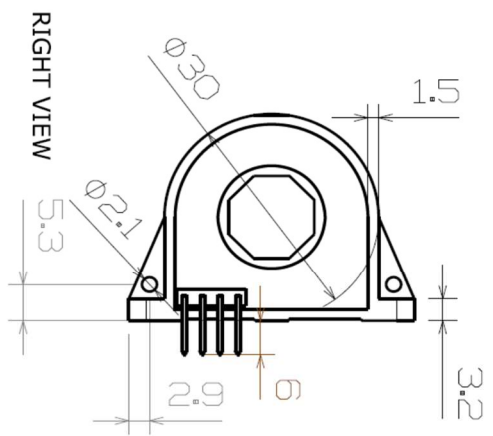
$$2. R_{Lmax} \leq \frac{K_N (\min(V_{CC} |V_{EE}|) - 5)}{|I_{Pmax}|} - \left(\frac{T_A + 273}{10} \right) \pm \alpha$$

Electrical Characteristics (V_{CC} = +15, V_{EE} = -15, T_A = 25°C)

Parameter	Symbol	Value	Unit
		50A	
Primary Nominal Current	I _{PN}	50	A
Secondary Conversion Turn Number	K _N	1,000	Turns
Output Current at I _{PN}	I _O	I _{PN} / K _N	A
Current Consumption	I _C	±20 ± I _O	mA
Recommended Load Resistance at I _{PN} ³	R _L	80	Ω
Accuracy at (@25°C) I _{PN}	X _G	≤±0.05	%
Offset Current	I _{OS}	≤±5	μA
Output Linearity Error at (@25°C) I _{PN}	l _ε	±150	ppm
Temperature Coefficient Ratio at I _{PN}	TCR	±0.005	%/°C
Response Time (@90% of I _{PN})	T _r	≥ 1	μs
di/dt Accurately followed	di/dt	50	A/μs
Frequency Bandwidth (@-3dB)	f _{cut-off}	100	kHz
Output Current Noise (r. m. s.)	I _N	100	μA

NOTES 3. Recommended load power rating : $1.5 \times R_L \times (I_{Pmax}/K_N)^2$

Dimensions



Terminal Pin Number

1. +15V
2. -15V
3. Output
4. GND

