

Hall Current Sensor TD500..101-OCA $I_{PN}=50...100A$

For the electronic measurement of currents:DC,AC,pulsed,mixed,
 with a galvanic isolation between the primary(high power)
 circuit and the secondary(electronic) circuit.



RoHS COMPLIANT



● Operating performance (AT =25°C)

Model		TD500-OCA	TD101-OCA
Primary nominal r.m.s. current I_{PN} (A)		50	100
Primary current measuring I_P (A)		0~±50	0~±100
Supply voltage V_{CC}		4.5~10.5	VDC
Offset voltage V_O		$(V_{CC}/2) \pm 3\%$ @ $I_P=0, T_A=25^\circ C$	
Output voltage V_{OUT}		4.5 @ $+I_{PN}, V_{CC}=5V, R_L=10K\Omega$	V
		0.5 @ $-I_{PN}, V_{CC}=5V, R_L=10K\Omega$	V
Supply current I_C		7.2 type 8.5 max@5V, $T_A=25^\circ C$	mA
Output linearity ϵ_L		$\leq \pm 1$ @ $0 \sim \pm I_{PN}$	%
Sensitivity tolerance X		± 1 @ I_{PN}	%
Thermal drift of V_{OUT} $TC\epsilon_G$		$< \pm 0.06$	%/°C
Isolation voltage V_d		4 @50(60)HZ/1min	KV
Rise time t_r		< 5 @90% I_P	μs
fall time t_f		< 3 @10% I_P	μs
Frequency bandwidth f		0~50 @ $V_{CC}=5V$	KHz

● General data

Operating temperature T_O		-40~+85°C
Storage temperature T_S		-40~+100°C
Mass m		< 12g
Note	Insulated plastic case recognized according to UL 94-V0	

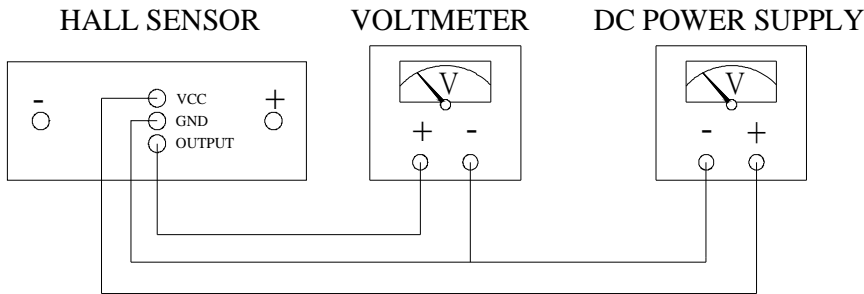
● Applications

◆AC variable speed drives and servo motor drives	◆Static converters for DC motor drives
◆Battery supplied applications	◆Switched Mode Power Supplies(SMPS)
◆Uninterruptible Power Supplies(UPS)	◆Power supplies for welding applications

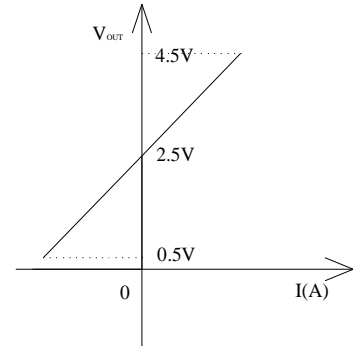
● Advantages

◆Output voltage is isolated from the input	◆Low power consumption
◆Good linearity	◆Excellent temperature stability
◆Very low insertion losses	

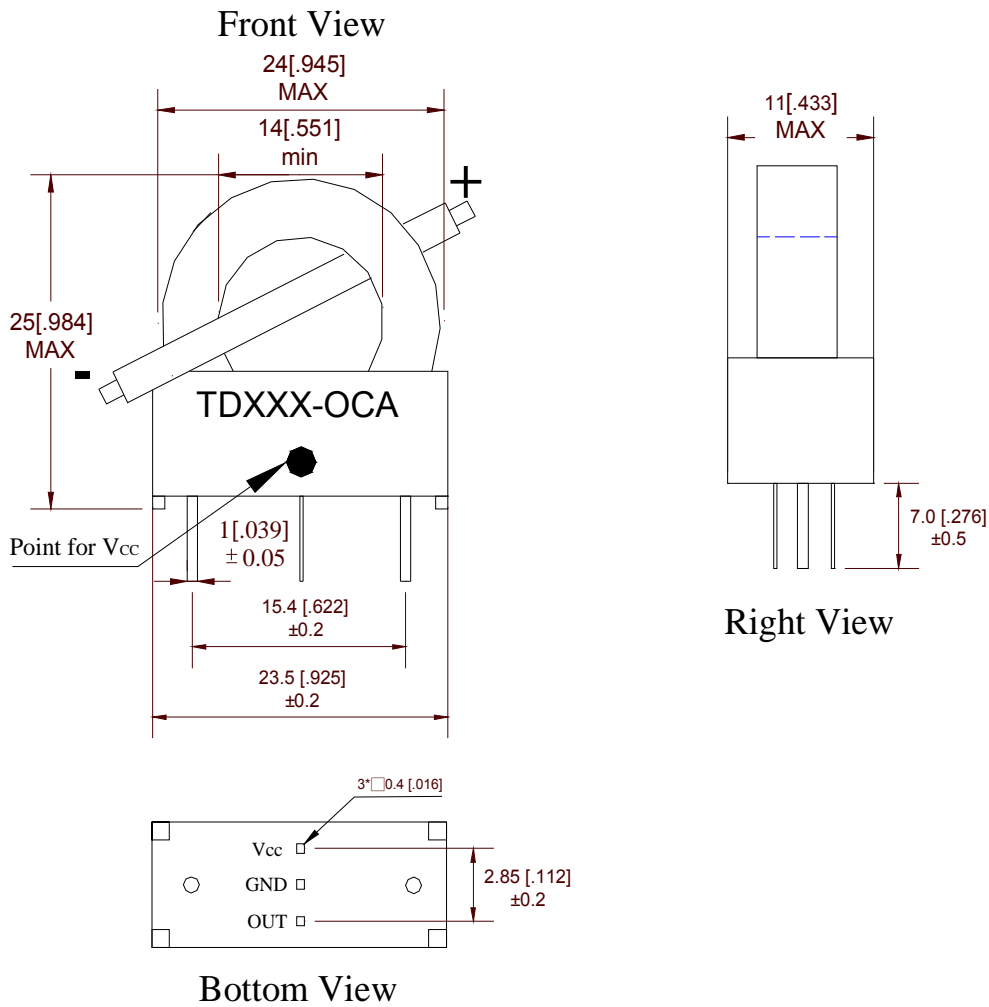
● **Connection**



● **Characteristic**



● **Dimensions (unit: mm/inch)**



NOTE : V_{OUT} is forward when I_p flows from "+" to "-".