Topstek Current Transducer TJ25A .. TJ200A

TJ 25A~200A

Features

- ◆ Highly reliable Hall Effect device
- Compact and light weight
- ◆ Fast response time
- ◆ Excellent linearity of the output voltage over a wide input range
- Excellent frequency response (> 50 kHz)
- Low power consumption (12 mA nominal)
- \blacklozenge Capable of measuring both DC and AC, both pulsed and mixed
- High isolation voltage between the measuring circuit and the current-carrying conductor (AC2.5KV)
 Extended exercising temperature range
- Extended operating temperature range
- Flame-Retardant plastic case and silicone encapsulate, using UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

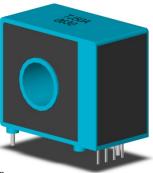
Applications

- ♦ UPS systems
- Industrial robots
- NC tooling machines
- Elevator controllers
- Process control devices
- ♦ AC and DC servo systems
- ◆ Motor speed controller
- ◆ Electrical vehicle controllers
- Inverter-controlled welding machines
- General and special purpose inverters
- Power supply for laser processing machines
- ♦ Controller for traction equipment e.g. electric trains
- Other automatic control systems

Specifications

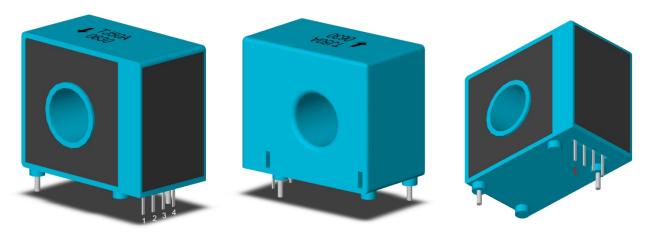
Parameter	Symbol	Unit	TJ 25A	TJ 50A	TJ 75A	TJ 100A	TJ 125A	TJ 150A	TJ 175A	TJ 200A
Nominal Input Current	I _{fn}	A DC	25	50	75	100	125	150	175	200
Linear Range	I _{fs}	A DC	±75	±150	±225	±300	±375	±450	±525	±525
Nominal Output Voltage	V _{hn}	V	4 V±1% at If=I _{fn} (R _L =10k Ω)							
Offset Voltage	V _{os}	mV	Within ±35 mV @ $I_f=0$, $T_a=25^{\circ}C$							
Output Resistance	Rout	Ω	<100Ω(50Ωnominal)							
Hysteresis Error	V_{oh}	mV	Within ±35 mV @ I _f =I _{fn} →0							
Supply Voltage	V_{CC}/V_{EE}	V	±15V ±5%							
Linearity	ρ	%	Within $\pm 1\%$ of I _{fn}							
Consumption Current	Icc	mA	±12 mA nominal, ±15 mA max							
Response Time (90%V _{hn})	Tr	µsec	7 μ sec max. @ $d I_f / dt = I_{fn} / \mu$ sec							
Frequency bandwidth (-3dB)	f_{BW}	Hz	DC to 50kHz							
Thermal Drift of Output	-	%/°C	Within ±0.05 %/°C @ I _{fn}							
Thermal Drift of Zero Current Offset	-	mV/°C	Within ±1.5 mV/°C @ I _{fn}							
Dielectric Strength	-	V	AC2.5KV X 60 sec							
Isolation Resistance @ 1000 VDC	R _{IS}	MΩ	>1000 MΩ							
Operating Temperature	Ta	°C	-15°C to 80°C							
Storage Temperature	Ts	°C	-20°C to 85°C							
Mass	W	g	28 g							



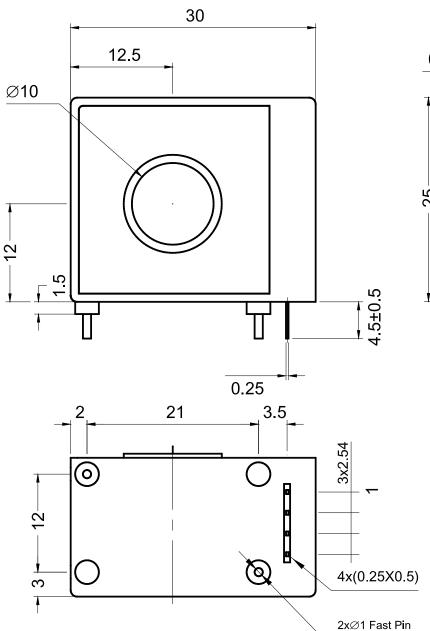


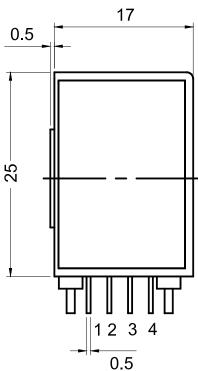
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Appearance, dimensions and pin identification All dimensions in mm ± 0.5 , holes -0, +0.2 except otherwise noted.



Current direction





Pin	Pin Assignment					
1	-15V					
2	0V					
3	+15V					
4	Vout					

