

CotoMOS® CT136HT/CS136HT

The CT136HT and CS136HT combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT136HT and the CS136HT offer low on resistance and high load current. The CT136HT utilizes a thru hole lead configuration, while the CS136HT offers a surface mount option when the application requires it. Both relays are ideally suited to the needs of Test and Measurement, Industrial, and Telecommunications.

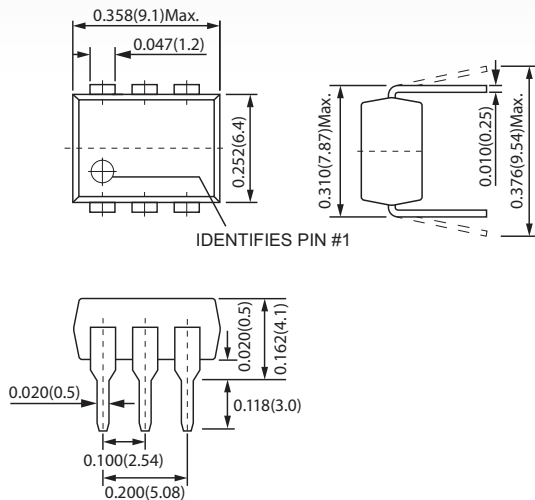
CT136HT/CS136HT Features

- ▶ Contact Form: 1A
- ▶ Load Voltage: 60V Maximum
- ▶ Operation LED Current: 8.0mA Maximum
- ▶ Load Current: 500mA Maximum
- ▶ On-Resistance: 0.5Ω Maximum
- ▶ Low Off-State Leakage Current: 10μA Maximum
- ▶ I/O Breakdown Voltage: 3750Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum

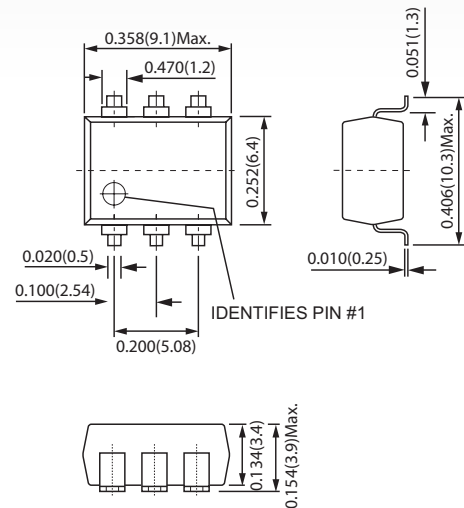
DIMENSIONS

in Inches (Millimeters)

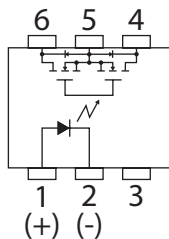
CT136HT



CS136HT

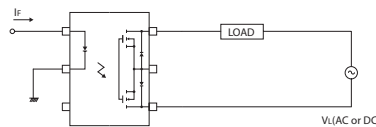


TERMINAL IDENTIFICATION

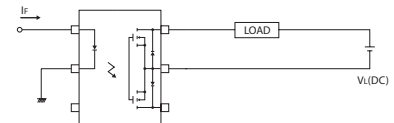


1: Anode (LED)
2: Cathode (LED)
3: NC
4,6: Drain (MOS FET)
5: Source (MOS FET)

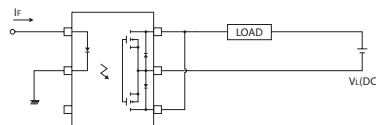
CONNECTIONS



A Control bi-directional signal



B On-Resistance is 1/2 of A-connection



C On-Resistance is 1/2 of B-connection

CT136HT/CS136HT MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I_F	mA	50
Peak LED Current	I_{FP} (F=100 Hz,Duty=1%)	mA	1000
LED Reverse Voltage	V_R	V	5
Input Power Dissipation	P_{in}	mW	75
OUTPUT SPECIFICATIONS			
Load Voltage	V_L	V (AC peak or DC)	60
Load Current	I_L	mA	500
Peak Load Current	I_{Peak}	A	3.0
Output Power Dissipation	P_{Out}	mW	300
RELAY SPECIFICATIONS			
Total Power Dissipation	P_T	mW	350
I/O Breakdown Voltage	$V_{I/O}$	V _{rms}	3750
Operating Temperature	T_{opr}	°C	-40 ~ +125
Storage Temperature	T_{Stg}	°C	-40 ~ +135

CT136HT/CS136HT ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V_F	$I_F=10mA$	V		1.3	1.5
Operation LED Current	$I_{F On}$	$I_L=Rating$	mA		5.0	10.0
Recovery LED Voltage	$V_{F Off}$		V	0.7		
OUTPUT						
On-Resistance Drain to Drain	R_{On}	$I_F=10mA, I_L=Rating$ Time to flow is within 1 sec.	Ω		0.17	0.5
Off-State Leakage Current	I_{Leak}	$I_F=0mA, V_L=60V$	μA			10.0
Output Capacitance	C_{Out}	$V_L=0V, f=1MHz$	pF		300	
TRANSMISSION						
Turn-On Time	T_{On}	$I_F=10mA, I_L=Rating$	ms		1.2	5.0
Turn-Off Time	T_{Off}		ms		0.05	0.5
COUPLED						
I/O Insulation Resistance	$R_{I/O}$		Ω	10^{10}		
I/O Capacitance	$C_{I/O}$	$f=1MHz$	pF		1.0	1.5

Environmental Ratings:

Operating Temp: -40°C to +125°C; Storage Temp: -40 to +135°C.

All electrical parameters measured at 125°C unless otherwise specified.