

CT136HT Datasheet



DiGi Electronics Part Number	CT136HT-DG
Manufacturer	Coto Technology
Manufacturer Product Number	CT136HT
Description	SSR RELAY SPST-NO 2.5A 0-60V
Detailed Description	Solid State SPST-NO (1 Form A) 6-DIP (0.300", 7.62mm)

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Purchase and inquiry

Manufacturer Product Number:

CT136HT

Series:

COTOMOST™

Mounting Type:

Through Hole

Output Type:

AC, DC

Voltage - Load:

0 V ~ 60 V

On-State Resistance (Max):

140 mOhms

Package / Case:

6-DIP (0.300", 7.62mm)

Manufacturer:

Coto Technology

Product Status:

Obsolete

Circuit:

SPST-NO (1 Form A)

Voltage - Input:

1.37VDC

Load Current:

2.5 A

Termination Style:

PC Pin

Supplier Device Package:

6-DIP

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.41.0030

Moisture Sensitivity Level (MSL):

2 (1 Year)

ECCN:

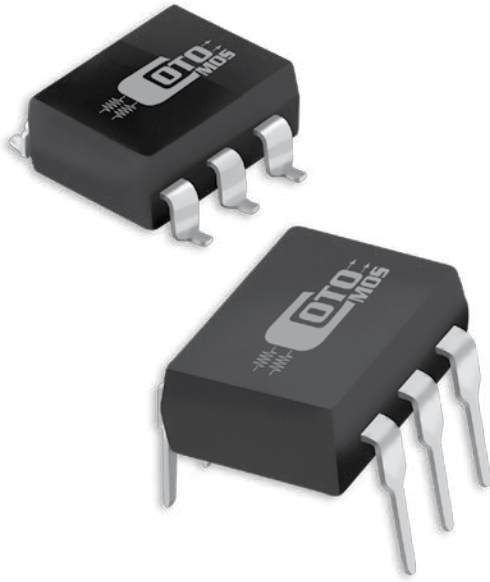
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CotoMOS® CT136/CS136

The CT136 and CS136 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT136 and the CS136 offer low on resistance and high load current. The CT136 utilizes a thru hole lead configuration, while the CS136 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.

CT136/CS136 Features

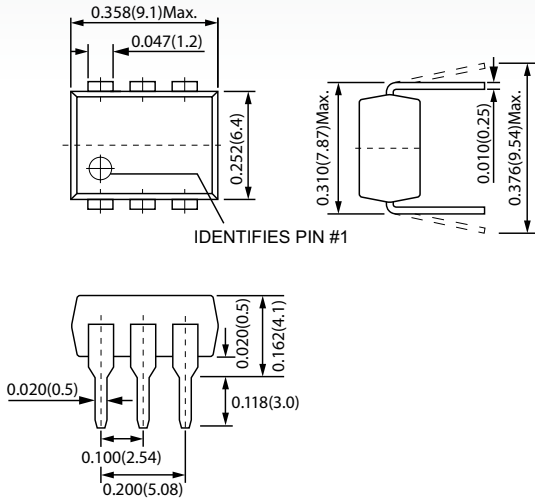
- ▶ Contact Form: 1A
- ▶ Load Voltage: 60V Maximum
- ▶ Operation LED Current: 3.0mA Maximum
- ▶ Load Current: 2.5A Maximum
- ▶ On-Resistance: 0.14Ω Maximum
- ▶ Low Off-State Leakage Current: 1.0μA Maximum
- ▶ I/O Breakdown Voltage: 1500Vrms Minimum
- ▶ Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum



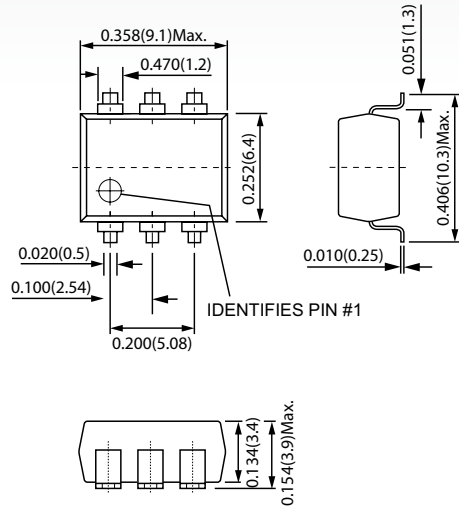
DIMENSIONS

in Inches (Millimeters)

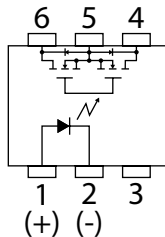
CT136



CS136



TERMINAL IDENTIFICATION



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

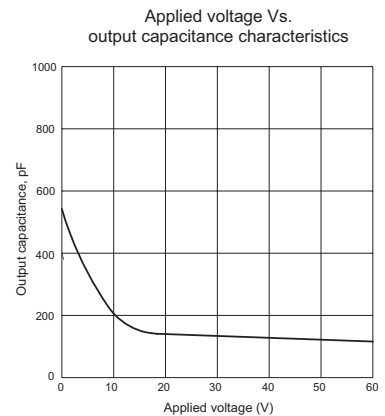
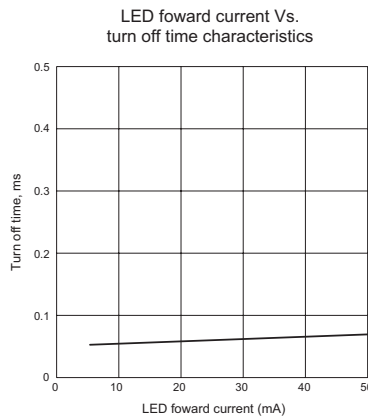
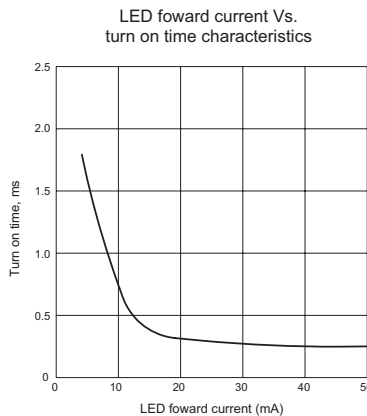
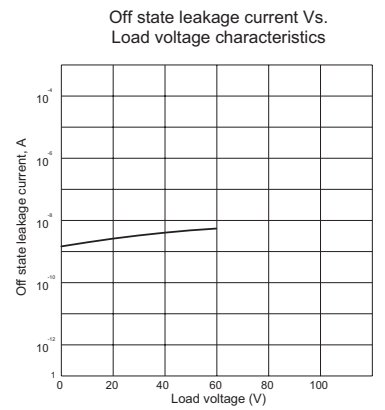
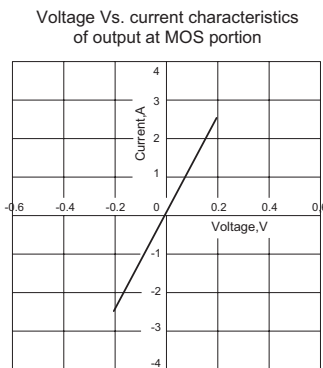
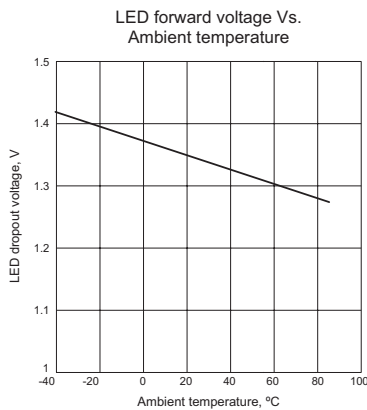
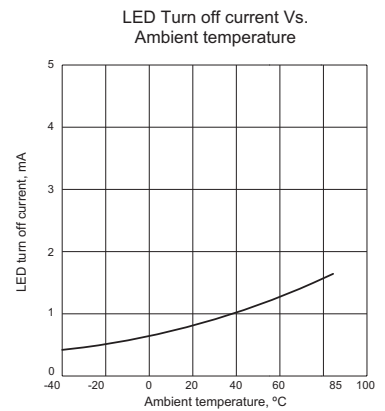
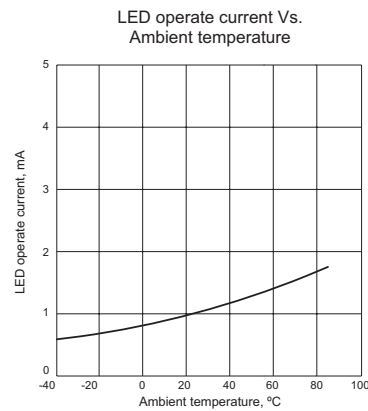
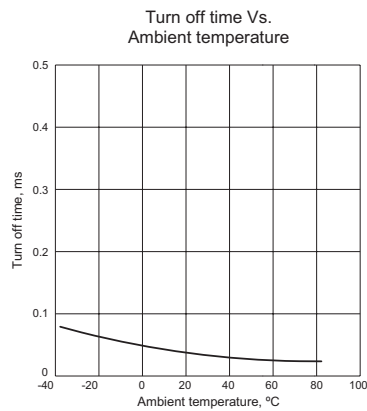
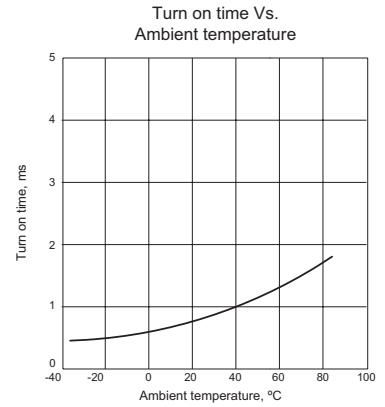
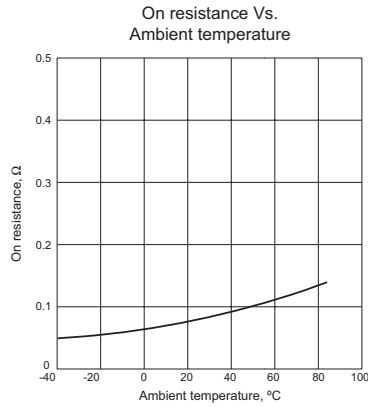
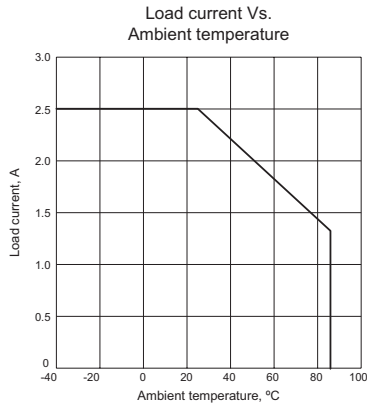
CT136/CS136 MAXIMUM RATINGS (Ambient Temperature: 25°C)			
Parameters	Symbol	Units	Value
INPUT SPECIFICATIONS			
Continuous LED Current	I _F	mA	50
Peak LED Current	I _{FP}	mA	500
LED Reverse Voltage	V _R	V	5
Input Power Dissipation	P _{in}	mW	75
OUTPUT SPECIFICATIONS			
Load Voltage	V _L	V (AC peak or DC)	60
Load Current	I _L	A	2.5
Peak Load Current	I _{Peak}	A	6.0
Output Power Dissipation	P _{Out}	mW	500
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	550
I/O Breakdown Voltage	V _{I/O}	V _{rms}	1500
Operating Temperature	T _{Opr}	°C	-40 ~ +85
Storage Temperature	T _{Stg}	°C	-40 ~ +100

CT136/CS136 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)						
Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I _F =10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA		1.5	3.0
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{On}	I _F =10mA, I _L =Rating Time to flow is within 1 sec.	Ω		0.09	0.14
Off-State Leakage Current	I _{Leak}	I _F =0mA, V _L =50V	μA			1.0
Output Capacitance	C _{Out}	V _L =0V, f=1MHz	pF		470	
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms		0.6	5.0
Turn-Off Time	T _{Off}		ms		0.04	2.0
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	5*10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF		1.0	

Environmental Ratings:

Operating Temp: -40°C to +85°C; Storage Temp: -40 to +100 C.
 All electrical parameters measured at 25° C unless otherwise specified.

CT136/CS136 GRAPHS



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