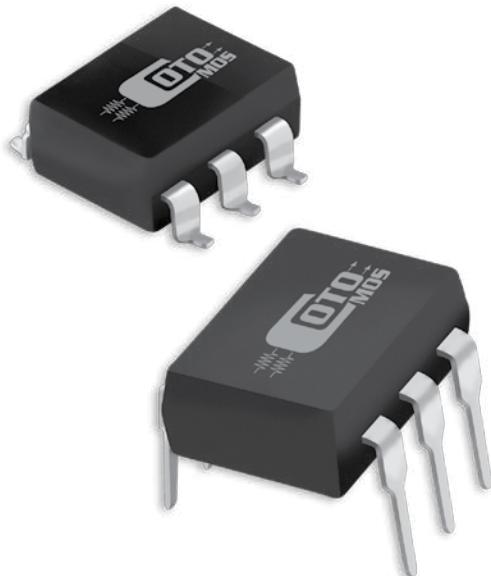




CT137/CS137



CotoMOS® CT137/CS137

The CT137 and CS137 combine Coto quality and economy in an industry standard 6 pin DIP package. Both the CT137 and the CS137 offer low on resistance. The CT137 utilizes a thru hole lead configuration, while the CS137 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.

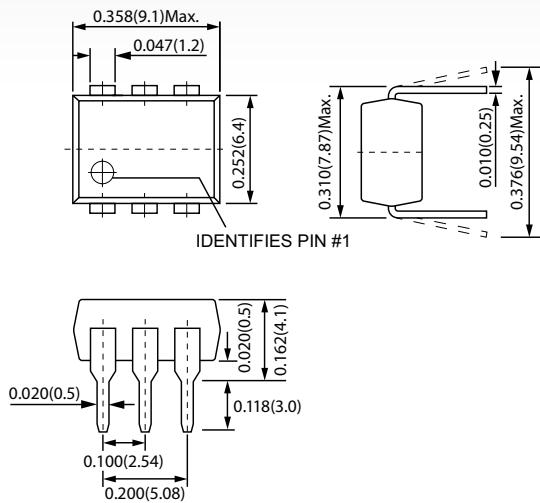
CT137/CS137 Features

- Contact Form: 1A
- Load Voltage: 60V Maximum
- Operation LED Current: 3.0mA Maximum
- Load Current: 400mA Maximum
- On-Resistance: 1.6Ω Maximum
- Low Off-State Leakage Current: 1.0µA Maximum
- I/O Breakdown Voltage: 1500Vrms Minimum
- Suffix - H for I/O Breakdown Voltage: 5000Vrms Minimum

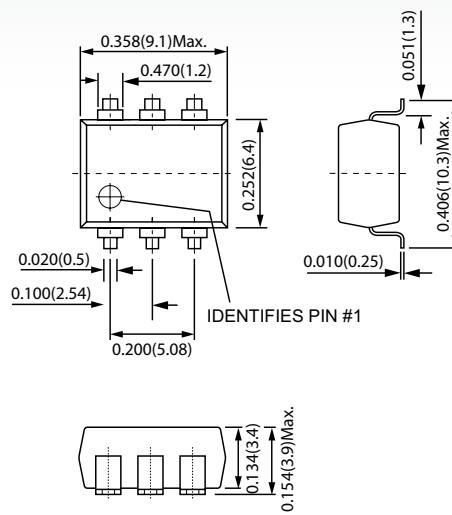
DIMENSIONS

in Inches (Millimeters)

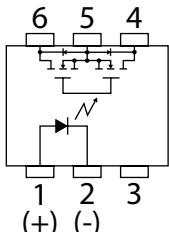
CT137



CS137



TERMINAL IDENTIFICATION



1: Anode (LED) 2: Cathode (LED) 3: NC	4,6: Drain (MOS FET) 5: Source (MOS FET)
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CT137/CS137 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	mA	400
Peak Load Current	I _{Peak}	A	2.0
Output Power Dissipation	P _{out}	mW	450
RELAY SPECIFICATIONS			
Total Power Dissipation	P _T	mW	500
I/O Breakdown Voltage	V _{I/O}	V _{rms}	1500
Operating Temperature	T _{Op}	°C	-40 ~ +85
Storage Temperature	T _{Stg}	°C	-40 ~ +100

CT137/CS137 ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)

Parameters	Symbol	Test Conditions	Units	Min	Typ	Max
INPUT						
LED Forward Voltage	V _F	I=10mA	V	1.0		1.5
Operation LED Current	I _{F On}		mA	0.9	3.0	
Recovery LED Voltage	V _{F Off}		V	0.5		
OUTPUT						
On-Resistance Drain to Drain	R _{on}	I _F =5mA, I _L =Rating Time to flow is within 1 sec.	Ω	0.8	1.6	
Off-State Leakage Current	I _{Leak}	V _L =60V	μA			1.0
Output Capacitance	C _{out}	V _L =0V, f=1MHz	pF	195		
TRANSMISSION						
Turn-On Time	T _{On}	I _F =10mA, I _L =Rating	ms	0.3	1.0	
Turn-Off Time	T _{Off}		ms	0.05	1.0	
COUPLED						
I/O Insulation Resistance	R _{I/O}		Ω	10 ⁹		
I/O Capacitance	C _{I/O}	f=1MHz	pF	1.3		

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.