CT331/CS331 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)	350
Load Current	I_L	mA	110
Peak Load Current	I_{Peak}	A	0.6
Output Power Dissipation	P_{Out}	mW	600
RELAY SPECIFICATIONS			
Total Power Dissipation	P_T	mW	650
I/O Breakdown Voltage	$V_{I/O}$	Vrms	1500
Operating Temperature	T_{opr}	°C	-40 ~ +85
Storage Temperature	T_{Stg}	°C	-40 ~ +100

CT331/CS331 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		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		17	24
Off-State Leakage Current	I_{Leak}	V_L=350V	μA			1.0
Output Capacitance	C_{Out}	V_L=0V, f=1MHz	pF		115	
TRANSMISSION						
Turn-On Time	T_{On}	I_F=10mA, I_L=Rating	ms		0.2	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.