	Т	

Features

- High isolation 5000 VRMS
- Supports 0.3 A, 0.6 A, 0.9 A and 1.2 A
- RoHS compliant
- REACH compliance
- External creepage > 7.5mm
- Internal creepage > 6.0mm
- Insulation distance > 0.4mm
- Regulatory Approvals
 - UL UL1577 (pending approval)
 - VDE EN60747-5-5(VDE0884-5)
 - CQC GB4943.1, GB8898
 - IEC60065, IEC60950

Description

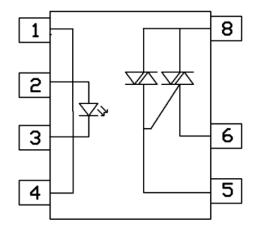
The random phase power Triac consists of a Triac and a photo-Triac, which is optically coupled to a gallium arsenide Infrared emitting diode, and house in a 7-lead DIP package. It also comes with different lead forming options.

Applications

- Home appliances
- Industrial equipment



Schematic



Note: Different bending options available. See package

dimension.



Absolute Maximum Rating at 25°C

Symbol	Parameters		Ratings	Units	Notes
Viso	Isolation voltage		5000	Vrms	
TOPR	Operating temp	perature	-40 ~+85	°C	
T _{STG}	Storage tempe	erature	-40 ~+125	°C	
Ŧ	Soldering temp	perature	260	°C	
T _{SOL} ──	Wave soldering te	mperature	260	°C	
Emitter				·	
lF	LED forward o	current	50	mA	
VR	LED reverse v	voltage	6	V	
IFP	Peak forward	current	1	A	
Pin	Power dissipation		75	mW	
Detector			·	·	
Vdrm	Repetitive peak OFF	-state voltage	600	V	
		CTT0223	0.3		
		CTT1223	0.6		
It(RMS)	Continuous Current Load	CTT2223	0.9	— A	
		CTT3223	1.2		
		CTT0223	3		
		CTT1223	6	Α	
Ітѕм	Peak Current Load	CTT2223	9		
	CTT3223		12		
Pout	Power dissip	pation	800	mW	
Рт	Total power dissipation		850	mW	



Electrical Characteristics *T_A* = 25°C (unless otherwise specified)

Emitter Characteristics

Symbol	Parameters	Test Conditions	Min	Тур	Max	Units	Notes
VF	Forward voltage	I⊧=10mA	-	-	1.3	V	
I _R	Reverse Current	$V_R = 6V$	-	-	5	μA	
CIN	Input Capacitance	f= 1MHz	-	45	-	pF	

Detector Characteristics

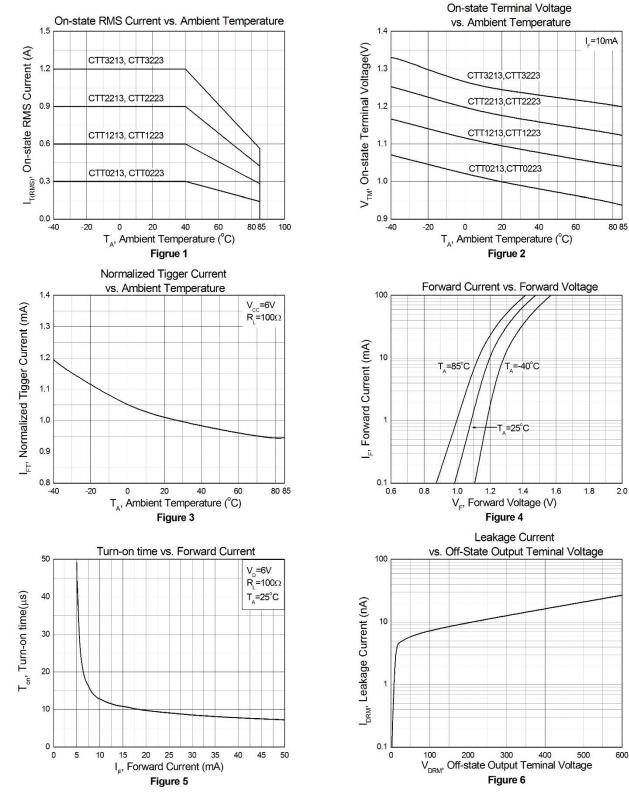
Symbol	Parameters	Test Conditions	Min	Тур	Max	Units	Notes
Idrm	Peak Blocking Current	IF= 0mA, VDRM= Rated VDRM	-	-	100	uA	
Vinh	Inhibit Voltage	IF= Rated IFT	-	-	50	V	
V _{TM}	Peak On-State Voltage	I _F = Rated I _{FT} , I _{TM} = 100mA	-	-	2.5	V	
-1 / -14	Critical Rate of Rise off-State		000				
dv/dt	Voltage	VPEAK= Rated VDRM	200	-	-	V/µs	

Transfer Characteristics

Symbol	Parameters	Test Conditions	Min	Тур	Max	Units	Notes
IFT	Input Trigger Current	Terminal Voltage = 3V	-	-	10	mA	
IH	Holding Current		-	-	25	mA	
Rio	Isolation Resistance	VIO= 500VDC	1x10 ¹¹	-	-	Ω	
Сю	Isolation Capacitance	f= 1MHz	-	0.25	-	pF	



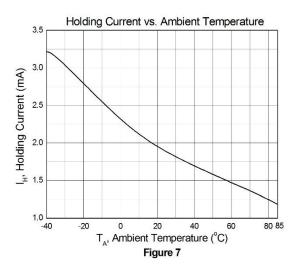
Typical Characteristic Curves

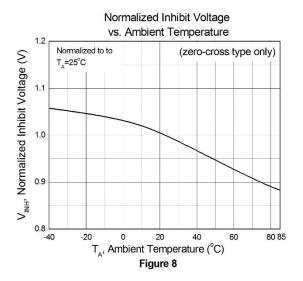


2.0

600



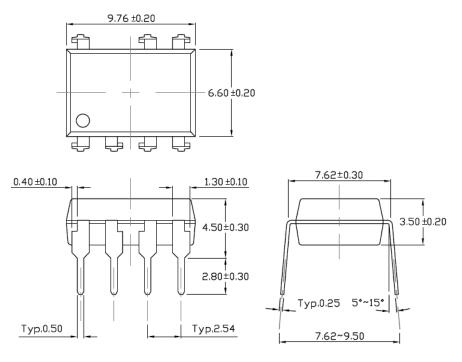




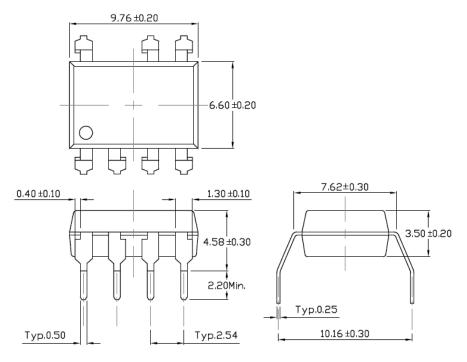


Package Dimension Dimensions in mm unless otherwise stated

Standard DIP – Through Hole

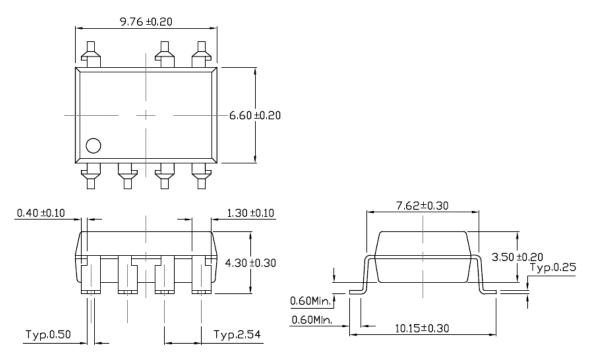


Gullwing (400mil) Lead Forming – Through Hole (M Type)

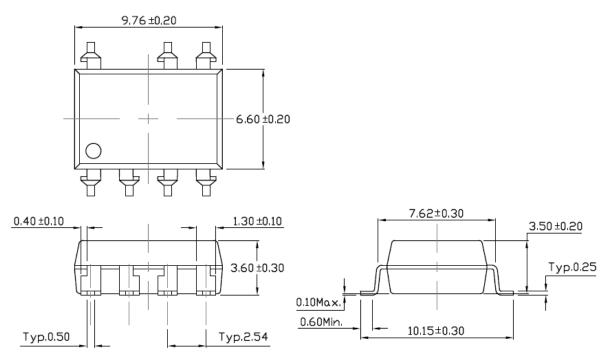




Surface Mount Lead Forming (S Type)

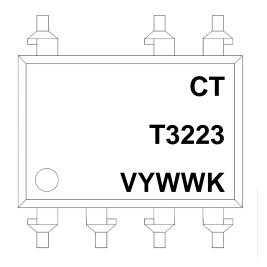


Surface Mount (Low Profile) Lead Forming (SL Type)





Device Marking



Note:	
СТ	: Denotes "CT Micro"
T3223	: Product Number
V	: VDE Safety Mark (option)
Y	: Fiscal Year
WW	: Work Week
K	: Production Code

Ordering Information

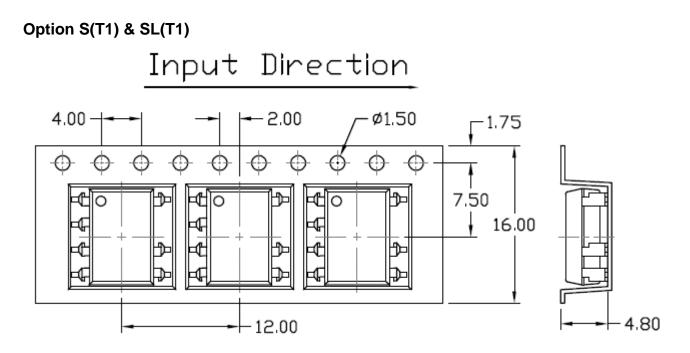
CTTX223(V)(Y)(Z)

СТ	= Denotes "CT Micro"
TX223	= Product Number (Current Rating Option X=0, 1, 2, or 3)
V	= VDE safety mark option (V, or none)
Y	= Lead form option (S, SL, M or none)
Z	= Tape and reel option (T1, T2 or none)

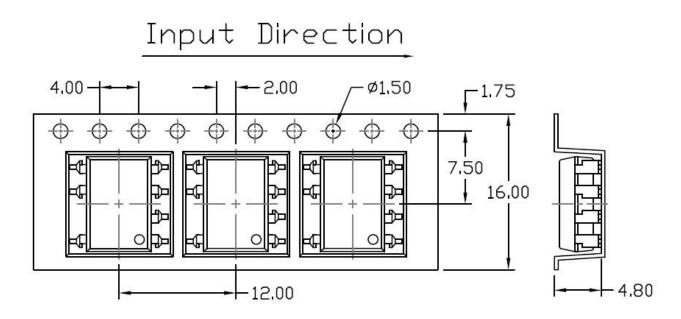
Option	Description	Quantity
None	Standard 8 Pin Dip	40 Units/Tube
М	Gullwing (400mil) Lead Forming	40 Units/Tube
S(T1)	Surface Mount Lead Forming – With Option 1 Taping	1000 Units/Reel
S(T2)	Surface Mount Lead Forming – With Option 2 Taping	1000 Units/Reel
SL(T1)	Surface Mount (Low Profile) Lead Forming- With Option 1 Taping	1000 Units/Reel
SL(T2)	Surface Mount (Low Profile) Lead Forming– With Option 2 Taping 1000 Units/Red	



Carrier Tape Specifications Dimensions in mm unless otherwise stated



Option S(T2) & SL(T2)





Wave soldering (JEDEC22A111 compliant)

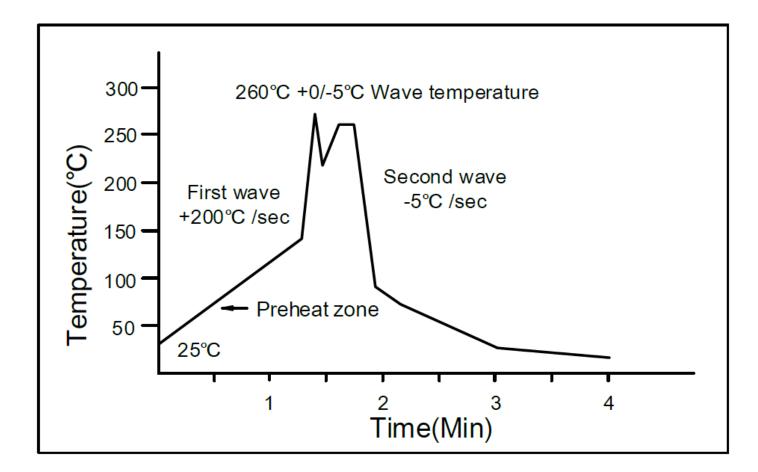
One time soldering is recommended within the condition of temperature.

Temperature: 260+0/-5°C.

Time: 10 sec.

Preheat temperature:25 to 140°C.

Preheat time: 30 to 80 sec.



Hand soldering by soldering iron

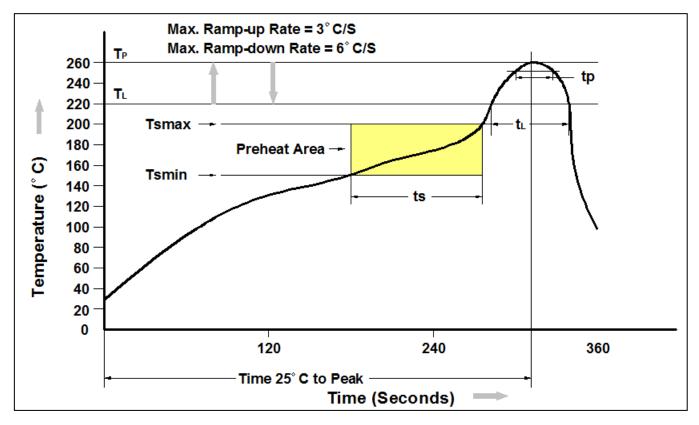
Allow single lead soldering in every single process.

One time soldering is recommended. Temperature: 350+0/-5°C

Time: 3 sec max.



Reflow Profile



Profile Feature	Pb-Free Assembly Profile	
Temperature Min. (Tsmin)	150°C	
Temperature Max. (Tsmax)	200°C	
Time (ts) from (Tsmin to Tsmax)	60-120 seconds	
Ramp-up Rate (t∟ to tթ)	3°C/second max.	
Liquidous Temperature (T _L)	217°C	
Time (t _L) Maintained Above (T _L)	60 – 150 seconds	
Peak Body Package Temperature	260°C +0°C / -5°C	
Time (t _P) within 5°C of 260°C	30 seconds	
Ramp-down Rate (T_P to T_L)	6°C/second max	
Time 25°C to Peak Temperature	8 minutes max.	



DISCLAIMER

CT MICRO RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. CT MICRO DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

CT MICRO ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT EXPRESS WRITTEN APPROVAL OF CT MICRO INTERNATIONAL CORPORATION.

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instruction for use provided in the labelling, can be reasonably expected to result in significant injury to the user.
- A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Triac & SCR Output Optocouplers category:

Click to view products by CT Micro International manufacturer:

Other Similar products are found below :

MOC3063S-TA IL410-X019T ILD207-X001T ILD615-1X007T VO4254H WPPCT-N1066A WPPCT-N1566A WPPCT-Z546D 523170E VO2223A-X007T WPPCT-Z546A WPPCT-Z1046D WPPCT-Z1046A WPPCT-N566D WPPCT-N566A WPPCT-N1566D FODM3053V_NF098 TLP3042SCF VO4258D VO4256D VO4158H-X017T IL4116-X009T MOC3071SM IL410-X017 IL4116-X007 VO0601-X001T ELM440A(TA)-VG EL3053S(TA)-V ELM3054(TA)-V ELM3083(TA)-V TLP265J(E(T MOC3020XSM MOC3021X MOC3021XSM MOC3022X MOC3023SR2M MOC3041SM MOC3042XSM MOC3043SR2M MOC3043X MOC3043XSM MOC3052SM MOC3063X MOC3081X MOC3081XSM BRT12H-X001 IS620XSM IS623X VO3062-X007T VO3063-X006