



FUJIAN **LIGHTNING** OPTOELECTRONIC CO.,LTD



量产光耦型录

Coupler in Mass Production

China Professional **EMC LED** Leading Company



Summary

Type	Transistor	AC Input, Transistor	Darlington Transistor	High Voltage Transistor	High Voltage Darlington Transistor	RP Photo TRIAC	ZC Photo TRIAC
DIP4	TD816 TD817	TD814	TD815	TD851	TD852	TD30XX-4L	TD30XX-4L
SOP4	TD356 TD357	TD354	TD355			TDM30XX	TDM30XX
LSOP4	TD101X						

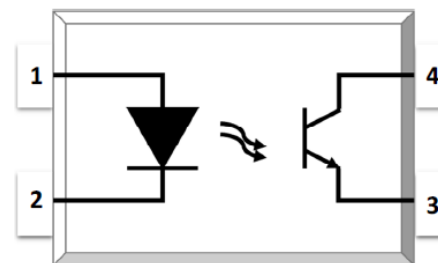
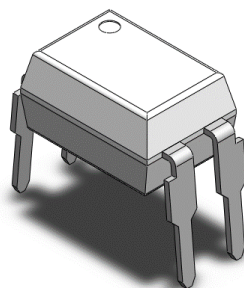
- MP Schedule
 - DIP6 2020Q3
 - DIP8 2020Q4



TD817 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 5000 VRMS
- CTR range 50% to 600%
- DC input with transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 35V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC - GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD817X(Y)(Z)-FGV

TD – Company Abbr.

817 – Part Number

X – Rank (A/B/C/D or None)

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

F – Leadframe Option (F:Iron, None:Copper)

G – Green

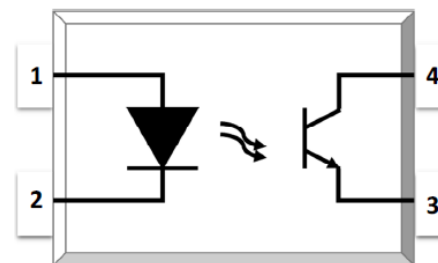
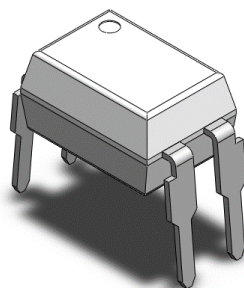
V – VDE Option (V or None)



TD816 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 5000 VRMS
- CTR range 50% to 600%
- DC input with transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 80V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD816X(Y)(Z)-FGV

TD – Company Abbr.

816 – Part Number

X – Rank (A/B/C/D or None)

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

F – Leadframe Option (F:Iron, None:Copper)

G – Green

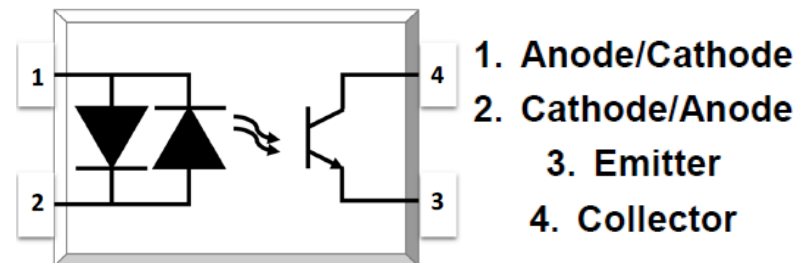
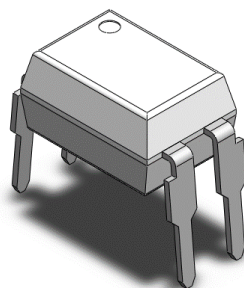
V – VDE Option (V or None)



TD814 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 5000 VRMS
- CTR range 20% to 300%
- AC input with transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 80V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



TD814X(Y)(Z)-GV

TD – Company Abbr.

814 – Part Number

X – Rank (A/B or None)

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

G – Green

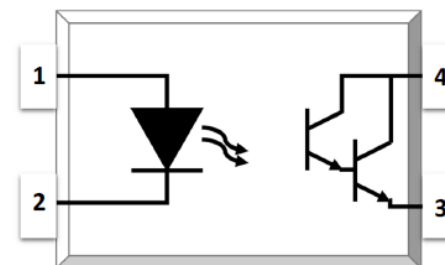
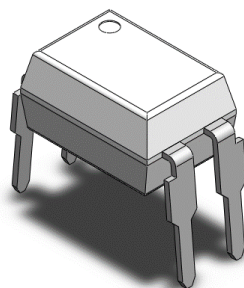
V – VDE Option (V or None)



TD815 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 5000 VRMS
- CTR range 600% to 7500%
- DC input with darlington transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 40V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD815(Y)(Z)-GV

TD – Company Abbr.

815 – Part Number

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

G – Green

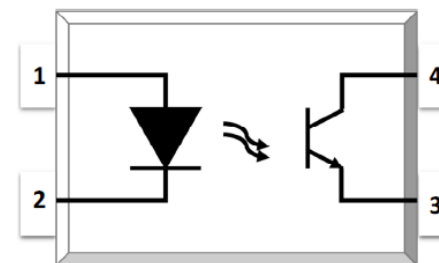
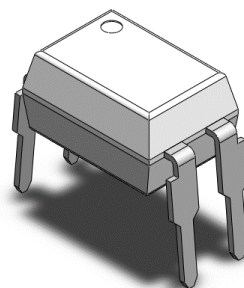
V – VDE Option (V or None)



TD851 Series

品质·创新·专注·双赢 Quality·Innovation·Focus on·Win-Win

- High isolation 5000 VRMS
- CTR range 50% to 600%
- DC input with high voltage transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 350V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD851(Y)(Z)-GV

TD – Company Abbr.

851 – Part Number

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

G – Green

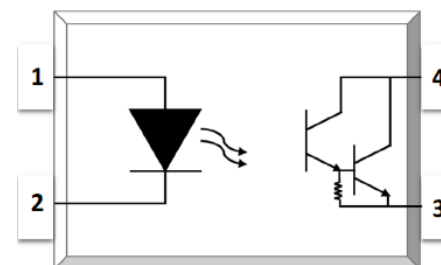
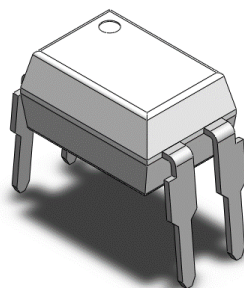
V – VDE Option (V or None)



TD852 Series

品质·创新·专注·双赢 Quality·Innovation·Focus on·Win-Win

- High isolation 5000 VRMS
- CTR range 1000% to 15000%
- DC input with high voltage darlington transistor
- Operating temperature range - 55 °C to 100 °C
- Collector - Emitter Voltage 350V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD852(Y)(Z)-GV

TD – Company Abbr.

852 – Part Number

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

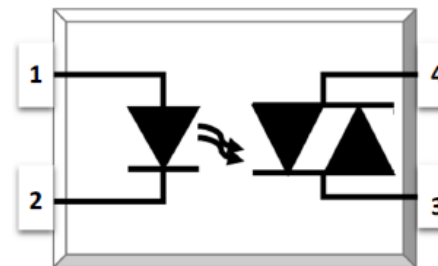
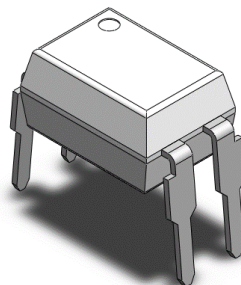
G – Green

V – VDE Option (V or None)



TD30XX-4L Series, RP Type

- High isolation 5000 VRMS
- Trigger Current(I_{FT}): <5mA, <10mA, <15mA
- DC input with random phase triac output
- Operating temperature range - 55 °C to 110 °C
- Off-state Output Terminal Voltage(V_{DRM}): >600V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Terminal
4. Terminal

TD30XX-4L(Y)(Z)-GV

TD – Company Abbr.

30XX – Part Number
(10/11/12/21/22/23/51/52/53)

-4L – DIP4 Package

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

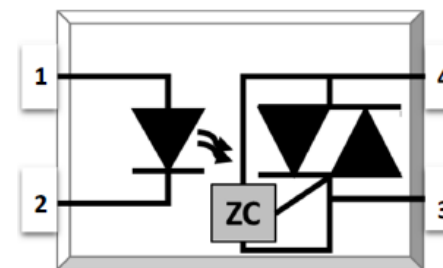
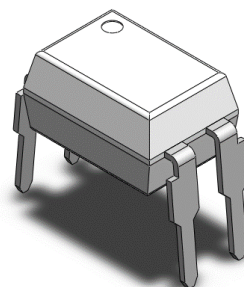
G – Green

V – VDE Option (V or None)



TD30XX-4L Series, ZC Type

- High isolation 5000 VRMS
- Trigger Current(I_{FT}): <5mA, <10mA, <15mA
- DC input with zero-cross triac output
- Operating temperature range - 55 °C to 110 °C
- Off-state Output Terminal Voltage(V_{DRM}): >600V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Terminal
4. Terminal

TD30XX-4L(Y)(Z)-GV

TD – Company Abbr.

30XX – Part Number
(31/32/33/41/42/43/61/62/63)

-4L – DIP4 Package

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2/T3/T4)

G – Green

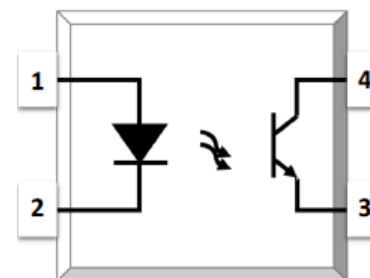
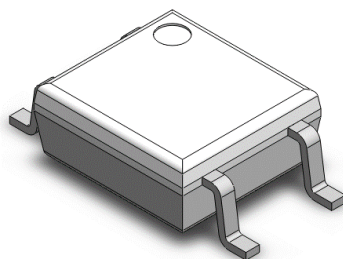
V – VDE Option (V or None)



TD357 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 3750 VRMS
- CTR range 50% to 600%
- DC input with transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 35V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD357X(Z)-GV

TD – Company Abbr.

357 – Part Number

X – Rank (A/B/C/D or None)

Z – Tape and Reel Option (T1/T2)

G – Green

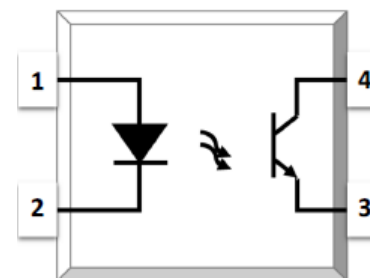
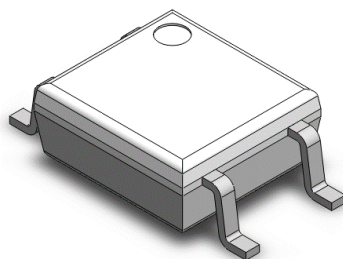
V – VDE Option (V or None)



TD356 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 3750 VRMS
- CTR range 50% to 600%
- DC input with transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 80V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD356X(Z)-GV

TD – Company Abbr.

356 – Part Number

X – Rank (A/B/C/D or None)

Z – Tape and Reel Option (T1/T2)

G – Green

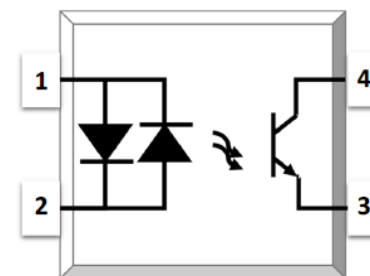
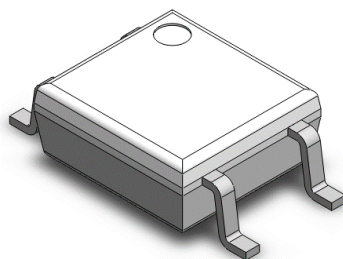
V – VDE Option (V or None)



TD354 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 3750 VRMS
- CTR range 20% to 300%
- AC input with transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 80V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode/Cathode
2. Cathode/Anode
3. Emitter
4. Collector

TD354X(Z)-GV

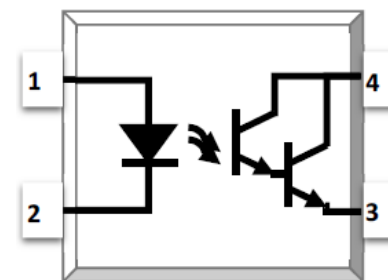
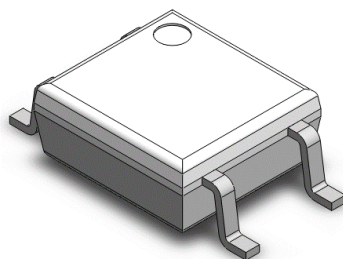
TD – Company Abbr.
354 – Part Number
X – Rank (A/B or None)
Z – Tape and Reel Option (T1/T2)
G – Green
V – VDE Option (V or None)



TD355 Series

品质 · 创新 · 专注 · 双赢 Quality · Innovation · Focus on · Win-Win

- High isolation 3750 VRMS
- CTR range 600% to 7500%
- DC input with darlington transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 40V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

TD355(Z)-GV

TD – Company Abbr.

355 – Part Number

Z – Tape and Reel Option (T1/T2)

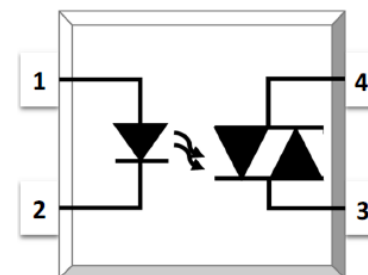
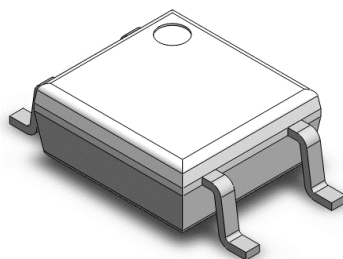
G – Green

V – VDE Option (V or None)



TDM30XX Series, RP Type

- High isolation 3750 VRMS
- Trigger Current(I_{FT}): <5mA, <10mA, <15mA
- DC input with random phase triac output
- Operating temperature range - 55 °C to 110 °C
- Off-state Output Terminal Voltage(V_{DRM}): >600V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Terminal
4. Terminal

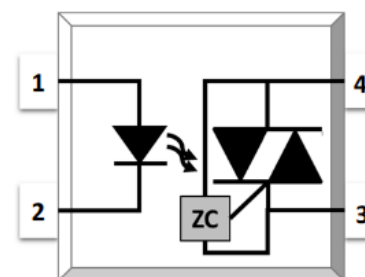
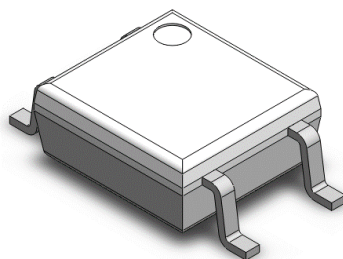
TDM30XX(Z)-GV

TD – Company Abbr.
M – SOP Package
30XX – Rank
(10/11/12/21/22/23/51/52/53)
Z – Tape and Reel Option (T1/T2)
G – Green
V – VDE Option (V or None)



TDM30XX Series, ZC Type

- High isolation 5000 VRMS
- Trigger Current(I_{FT}): <5mA, <10mA, <15mA
- DC input with zero-cross triac output
- Operating temperature range - 55 °C to 110 °C
- Off-state Output Terminal Voltage(V_{DRM}): >600V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Terminal
4. Terminal

TDM30XX(Z)-GV

TD – Company Abbr.

M – SOP Package

30XX – Rank

(31/32/33/41/42/43/61/62/63)

Z – Tape and Reel Option (T1/T2)

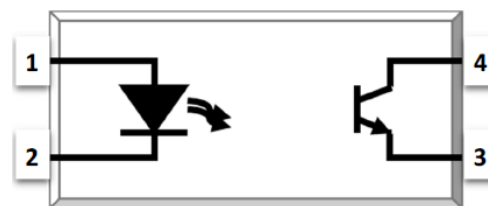
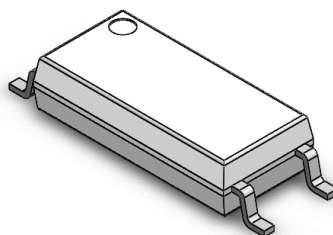
G – Green

V – VDE Option (V or None)



TD101X Series

- High isolation 5000 VRMS
- CTR range 50% to 600%
- DC input with transistor output
- Operating temperature range - 55 °C to 110 °C
- Collector - Emitter Voltage 80V
- REACH compliance
- Halogen free
- MSL class 1
- Regulatory Approvals
 - UL - UL1577
 - VDE - EN60747-5-5(VDE0884-5)
 - CQC – GB4943.1, GB8898



1. Anode
2. Cathode
3. Emitter
4. Collector

TD101X(Z)-GV

TD – Company Abbr.
101X – Rank (0/1/2/3/4/5/6/7/8/9)
Z – Tape and Reel Option (T1/T2)
G – Green
V – VDE Option (V or None)



FUJIAN **LIGHTNING** OPTOELECTRONIC CO.,LTD



Thank you

China Professional **EMC LED** Leading Company



FUJIAN LIGHTNING OPTOELECTRONIC CO.,LTD

ADD:Building 5,Optoelectronic Industry Park,Hutou County,Anxi Town, Quanzhou City,Fujian Province,China

P.C.:362411

Tel:+86-595-6879 0788

[Http://www.tdled.com](http://www.tdled.com)

Fax:+86-595-6879 0789

E-mail:sale@tdled.com

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