



Your Reliable Electronic Components Partner in China

➤ www.ufcapacitors.com

➤ www.topdiode.com

CONTENTS

INTEGRITY BUILDS QUALITY, INNOVATION LEADS THE FUTURE

- 01 Company introduction
- 02 Products - Discrete Semiconductors
- 03 Products - Passive Parts
- 04 Our Customers



01

Mutual
benefits



Professional

- Founded in 1995, with 3 manufacturing sites, 700 employees, 80 technical experts, Topdiode Group are one of the earliest company in China who manufacture and sell components to global market. With a strong reputation in Asia, Europe, North & South America, South Africa, and Russia, Topdiode Group has become a well-established semiconductor and capacitor company with a rich history in the global market.
- Topdiode is a reputable high-technology enterprise specializing in designing, producing, and marketing semiconductor power devices and integrated circuits (ICs). Our wide range of products, include MOSFETs, IGBTs, transistors, drive ICs, and audio ICs, which are used in various industries such as automotive, solar energy, 5G telecommunications, industrial electronics, white goods, lighting, security, and consumer electronics.
- Topdiode sales team is well-trained and have deep understanding of market trends and customer requirements. They can assist customers in finding alternative semiconductor & capacitors solutions to replace well-known manufacturers like Infineon, AOS, Texas (TI), ON Semi, Epcos, TDK and Murata. This flexibility in offering Pin-to-Pin alternative can be valuable for customers seeking cost-effective or fast delivery components.

01 Our Factories & Office Map



01

ISO9001:2015, RoHS, REACH, Halogen Free, UL, ENEC, KC, CQC certified



ISO9001:2015
UF CAPACITORS



ISO9001:2015
TOP DIODE



RoHS for
Capacitors



REACH for
Capacitors



RoHS for
Diode



REACH for
Diode

01

Protection Policy

Partner protection policy is **FOUNDATION** and **KEY IMPORTANCE** to work together so we have built mature system internally to trace every case and make sure to protect our partners by :

- 1- End-customer protection.
- 2- Project protection.
- 3- P/N protection.
- 4- Price protection.

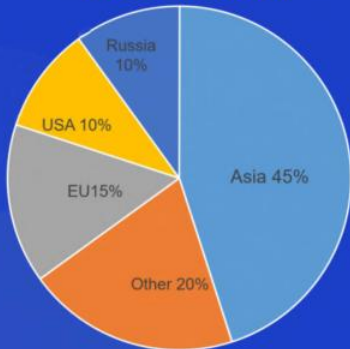
01 Why us

- ★ Reliable quality, and rich history in the global market!
- ★ Well trained sales and engineers work closely with customers, offer alternative solution, with fast response.
- ★ Topdiode has **competitive prices** and **shorter lead times** compared to other US and Japanese IC brands. Topdiode services are designed to meet the needs of customers seeking cost savings with faster project timelines.
- ★ Recognized quality by international companies such as: GE, PNE(Philips'OEM), Segemcom, Schneider, Samina, Celestica, Honeywell, Bosch, Flex. We have garnered strong recommendations from numerous international EMS/OEM customers, thanks to our exceptional reliability and outstanding performance.
- ★ Lead time usually 2~3 weeks for majority parts, and for high running IC, MOSFET, IGBT, chip MLCC, SMD tantalum capacitors & other high running P/N, we keep regular stocks.
- ★ Topdiode produce, design, and also have OEM products, try to meet customers' diverse requirement.

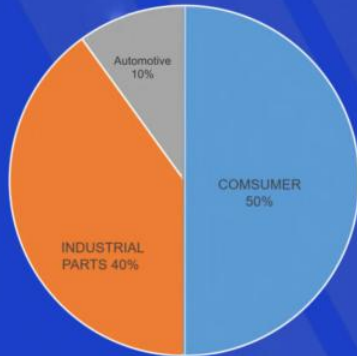
01

Marketing Share Pies

MARKET SHARE BY AREA

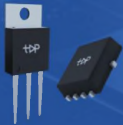


MARKET SHARE BY FIELD



02 Products

Semiconductor Products.



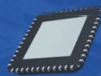
MOSFET



IGBT



IC Driver



Audio IC



Transistor

02

Semiconductor WorkShop

Industry integration from front-end packaging to back-end test lines



02 MOSFET, IC Driver

MOSFET (Metal Oxide Semiconductor Field Effect Transistor)

Package: SOT-23; SOT-363; TO220; SO-8; DFN etc.

Application: Unmanned aerial vehicles, E-Cigarettes, Blood Glucose Meter, CCTV Security Camera, Energy Devices, Heating Ventilation Air Conditioning (HVAC),



IC Driver (Integrated Circuit Driver)

Package: SOT23-6, SOP8, SOP16(W), SOP28

Application: solar energy, power supply, BLDC controller, electric vehicle controller, automatic equipment etc.



Audio IC Driver (Amplifiers)

Package: SOIC-16, SOIC16N,

Application: audio amplifiers



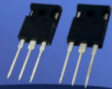
- **Reliable quality, replace Diodes, Littelfuse, Vishay, Onsemi, Nexperia, Rectron, Microchip, Taiwan Semiconductor.**
- **4~6 wks L/T for most parts with much better price.**

02 IGBT, TRIAC, SCR

IGBT(Insulated Gate Bipolar Transistor)

Package: TO-220MF; TO-247; TO-220F etc.

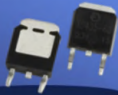
Application: IGBTs are used as switching devices for motor drive systems, uninterruptible power supplies (UPS), induction cookers, and other applications.



TRIAC (Triode for Alternating Current)

Package: TO-220F; TO-252; SOT-223

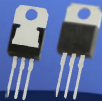
Application: Dimmer switches for lamps; Output controllers for electric heaters; Speed controllers for motors.



SCR (Silicon Controlled Rectifier)

Package: TO-92; TO-220F; TO-247 Cross brand: NXP; Vishay; Littelfuse

Application: DC Power Control; Over voltage Protection



- **Reliable quality, replace WeEn, Diodes, Littelfuse, Vishay, Onsemi, Nexperia, Rectron, Microchip, Taiwan Semiconductor.**
- **4~6 wks L/T for most parts with much better price.**

02 TVS Diode, Zener Diode, Transistors

TVS Diode

Items: P4KE6.8A~440A, P6KE6.8A~440A

SMAJ5.0A ~SMAJ170A, SMBJ5.0A ~SMBJ170A, SMCJ5.0A ~SMCJ170A

Application: It is designed to protect electronic circuits against transients and overvoltage threats such as EFT (electrically fast transients) and ESD (electro-static discharge)



Zener Diode

Items: MM5Z2B4; BZX84C Series; BZV55C; MM1Z4689

Application: Be used for voltage regulation, surge suppressors, switching applications



Transistors

Items: BC817, BC846, BC847, BC848, 2N2222, MMBT2222W

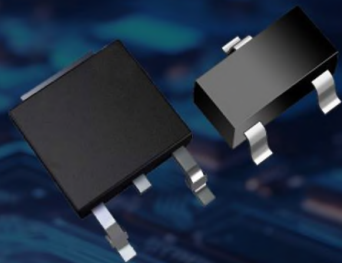
Application: Used in digital and analog circuits as a switch, signal amplifier devices, power regulator and controllers etc



- **Reliable quality to replace Diodes, littelfuse, Vishay, onsemi, Nexperia, Rectron, Microchip, and Taiwan Semiconductor etc.**
- **4~6 wks L/T for most parts with much better price.**

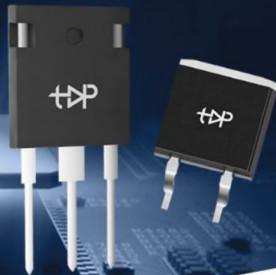
Top 10 Best-Selling MOSFETs from Topdiode.

NO#	P/N & Package	Cross to
1	TAP2305 SOT-23	Vishay SI2305
2	BSS84 SOT23	On semi/Diodes BSS84
3	2N7002 SOT-23	On semi/TI NDS7002A
4	TAP2302B SOT-23	On semi FDN327N
5	TAP40P04K TO-252	Infineon, ON, ST, AOS
6	TAP3400 SOT-23	On semi NVTR4503N
7	TAP3401 SOT-23	AOS AO3401
8	TAP2333 SOT-23	Vishay SI2333DDS
9	TAP2301 SOT-23	NXP NX2301PVL
10	TAP3404 SOT-23	Diodes DMN3150L-7



Top 10 BEST-Selling IGBT from Topdiode

NO#	P/N & Package	Cross to
1	TP07TD60BF TO-247	ST STGF7NB60SL
2	TP10TD60B TO-220	ST STGP10NC60HD
3	TPS20N60T TO-247	Infineon IRG4PC40UD
4	TPS40N60T TO-247	Infineon IRGP4640D
5	TP060U060EQ TO-247	AOS AOK60B60D1
6	TP80TD60BT TO-247	ST STGW80V60DF
7	TPGP15N65LN TO-220-3	Infineon IRGB4615D
8	TP030N065WED TO-247	TRINNO TGP30N60FDRS
9	TP040K065WED TO-247	TRINNO TGAN40N60F2DS
10	TPGW10N120LN TO-247-3	Maximum MAW10N120T1



Top 3 strong IC series - Audio IC to replace infineon

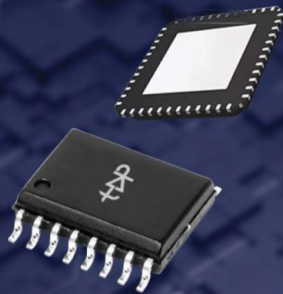
NO#	P/N & Package	Cross to
1	TPA2092 SOIC16(S)	Infineon IRS2092
2	TPA20957 SOIC16(S)	Infineon IRS20957
3	TPS20N60T TO-247	Infineon IRS2093

Advantage

- Pin to Pin replacment to Infineon
- Fast L/T:4 weeks
- Much better pricie to oost down
- Reliable quality (supply to 8eta)

Application

- Home theatre systems
- Mini oomponent stereo systems
- Powered speaker systems
- General purpose audio amplifiers



Top 10 BEST-Selling driver IC from Topdiode

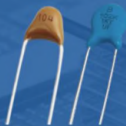
NO#	P/N & Package	Cross to
1	TPG2023 SOIC8	Fortior FD2203S
2	TPG2104 SOIC8	Infineon IR52104
3	TPG2136 SOP28	Infineon IR52136
4	TPG2183 SOIC8	Infineon IR52183S
5	TPG2101 SOIC8	Infineon IR52101
6	TPG2103 SOIC8	Infineon IR52103
7	TPG2113 SOIC16(W)	Infineon IR52113
8	TPG2186 SOIC8	Infineon IR52181
9	TPG27511 SOT23-6	TI UCC27511
10	TPG27517 SOT23-5	TI UCC27517



UF capacitors products



MLCC



Ceramic cap.



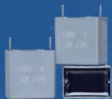
Tantalum cap.



SMD E-CAP.



Film Capacitor



DC link



Super cap.



Safety cap. - X2



Safety cap.-Y1&Y2



Varistor (MOV)

03 Passive Parts (1)

Ceramic Capacitors - (THT & SMD) 2018 add production line L/T 1~2weeks

Series: CT41 Chip MLCC; CT42 Axial leaded Cap; CT4 Radial Dipped Cap; CT81 High Voltage Disc Cap;
X1Y1 (upgrade to ***500V) & X1Y2 Safety Cap

Application: Industrial field: Power supply, E-Meter, Smart E-Meter, water-meter, EV charger

White goods, LED light, remote, TV, air conditioner etc Medical device Telecommunication.

General digital circuit, General electronic equipment, Mobile devices, Servers, PCs, tablets, The timer module for Mining
Energy management devices



Tantalum Capacitors - (THT & SMD) (Case A with large capacitance available)

Series: CA42 Radial dipped; CA45 SMD for general purpose; CA45U Low ESR SMD; CA55 Polymer Chip

Application: measuring device, smartphone, tablet PC, GPS tracker, electronic detonator; Industrial field: Power supply,
E-Meter, Smart E-Meter, water-meter, EV charger



Aluminum Electrolytic Capacitors

Series: produce full Series with temp from 85C to 125C, load life from 1000H to 10000H, Low ESR, etc.

****Advanced Series: TFS series, perfect cross to Panasonic FT series (Miniature)****

Application: Energy Storage System, Power Supply, Refrigerator, Washing Machine, Solar Inverter System, Air Conditioner,
Microwave Oven, LED Lighting (Ceiling Light)



03 Passive Parts (2)

Film Capacitors - (Dipped & Box-type)

Series: CL21 MKT Cap; CL21B MKT Cap; CBB81 High Voltage Met Polypropylene Cap;

CL19/20/23,CBB19/20 Axial Lead MKT, MKP Cap;

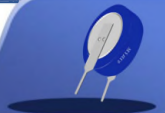
X2 MKP Cap box type: standard & double 85C

Application: AC applications such as phase shifters for PFC in fluorescent lamps, motor-run capacitors.



Super Capacitors / Ultra Capacitors Series: Coin type TSE &THT

Application: Consumer Electronics, Industrial and Automation, Portable Power Tools, Renewable Energy Storage Systems, Short Term UPS (Uninterruptible Power Supply), audio equipment, cameras, telephones, printers, data terminals, rice cookers, intelligent remote controls, power meter etc.



Leaded Varistors(MOVs)

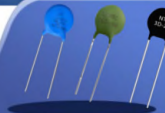
Standard series, high energy series, 6KV3KA series

Cross Ref: Vishay#VDR, Littelfuse#LA&ZA; Maida#D58ZOV;

PANASONIC #ERZV**D***K, TDK/EPCOS#B722**S***K

MF72 NTC Thermistor SC:Silicone Coat (Green&Black)

Cross ref: TDK/EPCOS #B57,#B57153S,Thinking-TVR#SCK***

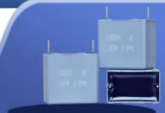


MKP DC Link Film Capacitors

TDA Series

Wide voltage range (- 450 ~ 1200VDC); High ripple current and low loss

Applications: High performance DC Link, DC filtering, frequency converters, industrial power supply, solar inverter and energy storage.



03 Safety Capacitors X2 Y1 Y2

X2 MKP cap box type: standard & double 85°C

Cross ref: V/MKP3382/84/94, K/R46 PHE850, Pikor: PCX2 337

Application: "Across the line" applications; Severe ambient conditions; Capacitive power supply; Energy meters etc.



X1Y1 & X1Y2 safety capacitor

Cross ref: Murata DE series; TDK CS45; Kemet C90

Application: Power supply noise suppression circuit in cross connection and bypass

AC line filter and switching power supply and AC converter



* 3-4 weeks fast delivery

* cost down 20%~60%

* Y1, Y2 safety cap with CQC UL VDE KC safety approvals

* UL Recognized Test Lab in Factory

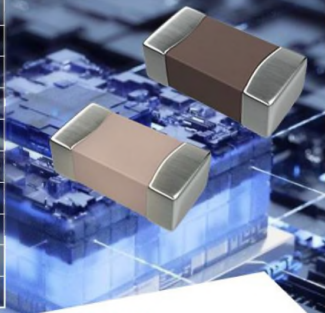
03 Capacitors UL Test Lab

Testing Lab, Reliability Lab have been accredited by CNAS and UL Lab



Top 10 Best-Selling MLCC

NO#	P/N & Package	Description
1	0805B104K500CR	0.1uF 50V X7R +/-10% 0805 T&R RoHS
2	0603B104K500CR	0.1uF 50V X7R +/-10% 0603 T&R RoHS
3	1206X476M100CR	47uF 10V X5R +/-20% 1206 T&R RoHS
4	0805B103K500CR	0.01uF 50V X7R +/-10% 0805 T&R RoHS
5	1206X476M160CR	47uF 16V X5R +/-20% 1206 T&R RoHS
6	0603B333K500CR	0.033uF 50V X7R +/-10% 0603 T&R RoHS
7	1210X107M160CR	100uF 16V X5R +/-20% 1210 T&R RoHS
8	0805B105K500CR	1uF 50V X7R +/-10% 0805 T&R RoHS
9	1206X106K250CR	10uF 25V X5R +/-10% 1206 T&R RoHS
10	0805B223K500CR	0.022uF 50V X7R +/-10% 0805 T&R RoHS



The logo for UF CAPACITORS, with 'UF' in a stylized red font and 'CAPACITORS' in a smaller red font to its right.

Large stock offer

for tantalum capacitors, polymer capacitor

- 200+ items running stock
- 100% Quality guarantee
- 100% Original and NEW capacitors, DC 2023+
- Alternative to AVX, Kemet, Vishay
- Competitive prices to help customer cost down



Top 10 hot selling super capacitors

TSE double layers super capacitors(coin cell)

Des.	Size MM
V Type 0.47F 5.5V	11.5x4.6x12.3
H Type 1F 5.5V	18.7x5.3x6.0
C Type 1.5F 5.5V	20.5x7.4

THP radial lead type supercapacitors

Des.	Size MM
3.3F 2.7V	Φ8*20
5F 2.7V	Φ10*20
15F 2.7V	Φ12.5*34

TSPB Box type super capacitors

Des.	Size MM
0.22F 5.5V	8*14.6*13.5mm
0.33F 5.5V	9.6*18.1*18mm
0.47F 5.5V	9.6*18.1*18mm
1F 5.5V	11.6*22*25.5mm



04 Topdiode customers

EMS/Manufacturer Customers



GE Power

Sagemcom

Schneider
Electric



SANMINA



Celestica

Worldwide Distributors

wdi ag



YE GROUP

EIS

LE CHAMP



Easby
Electronics
part of the Easby Group

Your satisfaction is our greatest Achievement!



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THANKS