



Everlight Power Semiconductor Features

Pb free



Our products must comply with lead-free regulations, and we continue to uphold this principle in the power semiconductor field.

Laser Dicing



Leveraging our experience in laser dicing, we achieve excellent reliability and high productivity through laser cutting.

Green fab



Everlight advocates for environmental protection and sustainable management, with products compliant with RoHS standards.

Tools Integration



Everlight has the capability to integrate various types of equipment, maximizing productivity.

AECQ Fab



The certification obtained by the Tongluo plant in automotive products is a prerequisite for entering the automotive semiconductor field.

Made in Taiwan



Everlight's robust ecosystem features a stable supply chain with local partners and manufacturing facilities, ensuring high-quality products and reducing potential disruptions.



Maximizing Recycles with maximum respect for the cycle of life.

Your source of information: www.everlight.com for all approved EVERLIGHT optoelectronic products and updated specifications, structure and material depend on customer request.

SiC SBD Specifications

SBD									
Reverse Voltage[V]	Continuous Forward Current[A]	DFN 8x8 5L	TO-252-2L	TO-252-3L	TO-220-2L	TO-220F-2L	TO-247-2L	TO-247-3L	
650	4	●	●	●	●	●			
	6	●	●	●	●	●			
	8	●	●	●	●	●			
	10	●	●	●	●	●	●		
	20 (Dual)				●		●	●	
40 (Dual)							●	●	
1200	10				●		●		
	20 (Dual)				●		●	●	
	40 (Dual)							●	●
	50						●		

(● = Dual Chip)

SiC MOSFET Specifications

SiC MOSFET				
Drain-source Voltage[V]	Drain-source On-state Resistance[Typ.](mΩ)	TO-247-3L	TO-247-4L	TO-283-7L
650	20	●	●	
750	30		●	
1200	14	●		
	20	●	●	
	40	●	●	
	60	●	●	
	80	●	●	
1700	1000		●	●

Si MOSFET Specifications

Si MOSFET			
Drain-source Voltage[V]	Drain-source On-state Resistance[Typ.](mΩ)	TO-252-3L	TO-220-3L
100	12	●	
150	9		●

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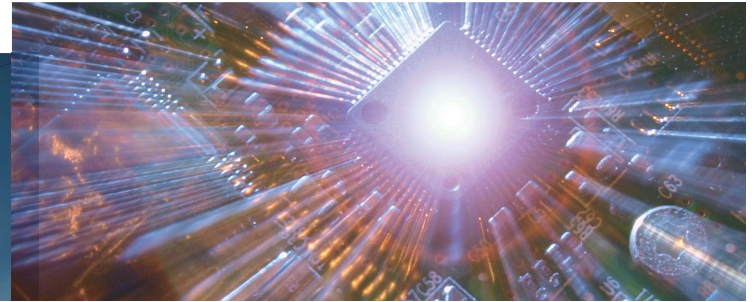
Semi-Power Device

ENABLING THE FUTURE

SiC SBD · SiC MOSFET · GaN Transistor · Si MOSFET

www.everlight.com

EVERLIGHT



Sic SBD Package type

Everlight's Silicon Carbide (SiC) Schottky Barrier Diodes (SBD) are the perfect choice for high-frequency, high-temperature, and high-power applications. These cutting-edge diodes are the preferred materials for the increasing demands of new energy vehicle and renewable energy sectors. With a voltage rating of 650V, the Everlight SiC SBD series offers a current range from 4A to 20A, ensuring optimal performance for your power needs. The diodes come in the TO-Series packages, known for its reliability and ease of use.

Product Name	TO-252-2L	TO-252-3L	TO-263-2L	TO-220-2L	TO-220F-2L	TO-247-2L	TO-247-3L	DFN 8x8-5L
Dimension (mm)	6.0*3.84*2.3	6.2*5.84*2.2	10.1*11.5*4.5	9.99*28.78*4.5	9.99*28.78*4.5	15.84*41.02*5.02	15.84*41.02*5.02	8*8*0.85
Picture								
Reverse Voltage [V]	650	650	650	650/1200	650/1200	650/1200	650/1200	650
Application	New energy vehicle (NEV) Renewable energy Power factor correction circuit DC-DC converter Motor Driver IPC							

Sic MOSFET Package type

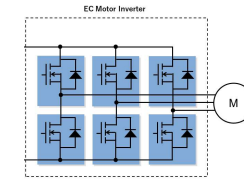
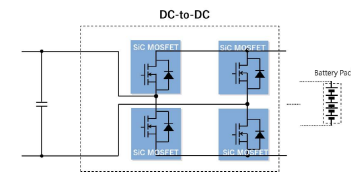
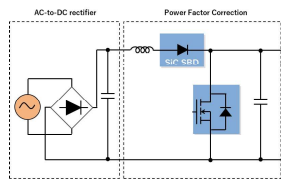
The Everlight Silicon Carbide (SiC) MOSFETs come with ultra-fast switching speeds and minimal switching losses. These advanced MOSFETs from Everlight are the ideal compact solution to streamline your peripheral device usage, optimize space utilization, and reduce costs. The Everlight SiC MOSFET series covers voltage ratings of 650V and 1200V, offering a broad range of resistances, spanning from 20 mOhm to 100 mOhm. This ensures exceptional conductivity and efficiency for your power applications. Packaged in the reliable and widely adopted TO-Series format, these MOSFETs seamlessly integrate into your existing systems.

Product Name	TO-263-7L	TO-220-3L	TO-220F-3L	TO-247-3L	TO-247-4L	TO-247-4L-TC	DFN 8x8-5L
Dimension (mm)	10.11*16*4.5	9.99*28.78*4.5	10.16*28.97*4.7	15.84*41.02*5.02	15.84*41.02*5.02	15.84*41.02*5.02	8*8*0.85
Picture							
Reverse Voltage [V]	650/1200/1700	650 / 1200	650/1200	650/1200	650/1200/1700	650/1200/1700	650
Application	Servers communication equipment Uninterruptible power supply (UPS) Solar power inverter Electric vehicle charging station Smart Meter Power Storage System						

Si MOSFET Package type

Introducing the Everlight Si Power Devices, renowned for their mature manufacturing technology, exceptional controllability, high voltage tolerance, and outstanding reliability. The Everlight Si Power Device series encompasses a wide range of products, all packaged in the reliable and industry-standard TO-Series format.

Product Name	TO-252-3L	TO-220-3L	TO-220F-3L	DFN 8x8-5L	TO-247-3L	TO-247-4L
Dimension (mm)	6.0*10*2.3	10.11*28.78*4.5	10.16*28.97*4.7	8*8*0.85	15.84*41.02*5.02	15.84*41.02*5.02
Picture						
Application	Mobile Chargers Transformers for Small Household Appliances Applications include automotive electronics, industrial control, consumer electronics, solar power, wind power generation, data centers, lighting, transportation, and other industrie					



Maximizing lifecycle with maximum respect for the cycle of life.

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