



Product Brief

Infineon® Eco Blocks

Thyristor/diode modules in solder bond technology
1600 V/20 mm, 1600-2200 V/34mm, 50mm
(TT, TD and DD topologies)

With our 20 mm, 34 mm and 50 mm bipolar modules in solder bond technology, we have developed a cost optimized alternative to our pressure contact module technology even in demanding applications. Solder bond modules are ideal for applications where the highest robustness of pressure contact technology is not necessarily a must. Typical applications are drives, power supplies and soft starters.

The 50 mm thyristor/thyristor and thyristor/diode modules are also available with pre-applied silicone-free Thermal Interface Material (TIM). The optimized pattern of this reversible phase change material results in a stable thermal performance over life time which increases reliability and lifetime of your system.

Customer benefits

- › Cost effective solution for higher competitiveness
- › Predictably high performance and lifetime due to 100% x-ray monitoring
- › Solid base plate for fast and easy mounting
- › One-stop-shop due to complete module technology portfolio



Key features

- › 34 and 50 mm thyristor/thyristor & thyristor/diode modules available in 1600 V and 1800 V
- › 34 and 50 mm rectifier diode modules available in 1600 V, 1800 V, 2000 V and 2200 V

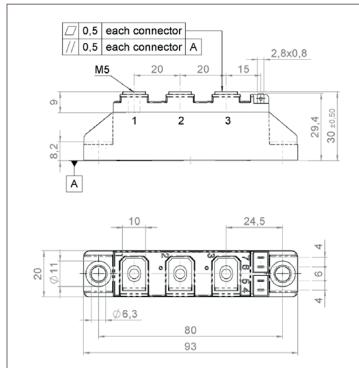
Applications

- › Drives
- › Soft starters
- › Power supplies
- › Welding
- › Static switches
- › Battery chargers

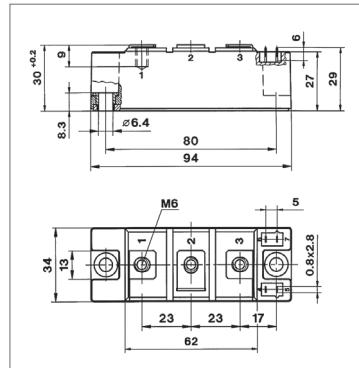
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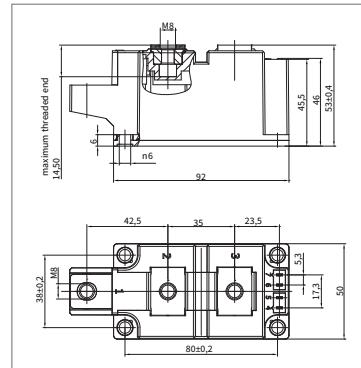
TT/TD and DD
outline dimensions 20 mm



TT/TD and DD
outline dimensions 34 mm



TT/TD and DD
outline dimensions 50 mm



Sales Information

Sales product	Housing	$V_{\text{DRM}} / V_{\text{RRM}}$	I_{TAVM}	I_{TSM}
Thyristor modules				
TT60N16SOF	20 mm	1600 V	55 A	1200 A
TT120N16SOF	20 mm	1600 V	120 A	2250 A
TT160N18SOF	34 mm	1800 V	160 A	4500 A
TT160N16SOF	34 mm	1600 V	160 A	4500 A
TT190N18SOF	34 mm	1800 V	190 A	4500 A
TT190N16SOF	34 mm	1600 V	190 A	4500 A
TT280N18SOF	50 mm	1800 V	280 A	7800 A
TT280N16SOF	50 mm	1600 V	280 A	7800 A
TT320N18SOF	50 mm	1800 V	320 A	8200 A
TT320N16SOF	50 mm	1600 V	320 A	8200 A
TT320N16SOF TIM	50 mm	1600 V	320 A	8200 A

Sales product	Housing	V_{DRM} / V_{RRM}	I_{TAVM}	I_{TSM}
Thyristor / diode modules				
TD60N16SOF	20 mm	1600 V	55 A	1200 A
TD120N16SOF	20 mm	1600 V	120 A	2250 A
TD160N18SOF	34 mm	1800 V	160 A	4500 A
TD160N16SOF	34 mm	1600 V	160 A	4500 A
TD190N18SOF	34 mm	1800 V	190 A	4500 A
TD190N16SOF	34 mm	1600 V	190 A	4500 A
TD280N18SOF	50 mm	1800 V	280 A	7800 A
TD280N16SOF	50 mm	1600 V	280 A	7800 A
TD320N18SOF	50 mm	1800 V	320 A	8200 A
TD320N16SOF	50 mm	1600 V	320 A	8200 A
TD320N16SOF TIM	50 mm	1600 V	320 A	8200 A

Rectifier diode modules				
DD100N16S	20 mm	1600 V	134 A	2000 A
DD180N22S	34 mm	2200 V	192 A	5000 A
DD180N20S	34 mm	2000 V	192 A	5000 A
DD180N18S	34 mm	1800 V	192 A	5000 A
DD180N16S	34 mm	1600 V	192 A	5000 A
DD340N22S	50 mm	2200 V	330 A	8500 A
DD340N20S	50 mm	2000 V	330 A	8500 A
DD340N18S	50 mm	1800 V	330 A	8500 A
DD340N16S	50 mm	1600 V	330 A	8500 A

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