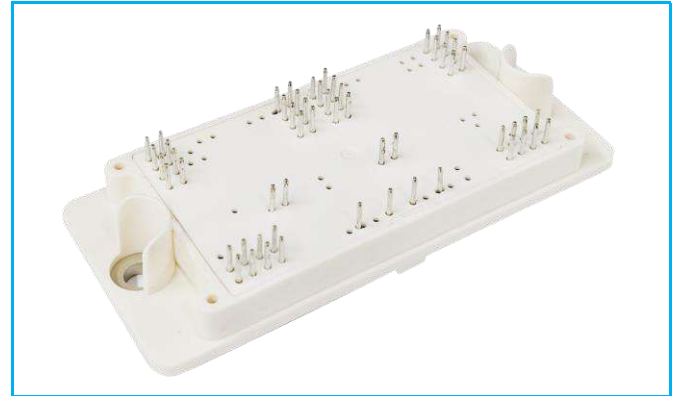


## PRODUCT FEATURES

- High efficient and compact symmetric booster
- High switching frequency and low inductive design
- Low losses with TRENCHSTOP™ 5 IGBT
- Integrated temperature sensor



## APPLICATIONS

- UPS Systems

ABSOLUTE MAXIMUM RATINGS ( $T_C=25^\circ\text{C}$  unless otherwise specified)

### IGBT(T1、T2)

Symbol	Parameter/Test Conditions		Values	Unit
$V_{CES}$	Collector Emitter Voltage	$T_{vj}=25^\circ\text{C}$	650	V
$V_{GES}$	Gate Emitter Voltage		$\pm 20$	
$I_C$	DC Collector Current	$T_C=25^\circ\text{C}, T_{vjmax}=175^\circ\text{C}$	345	A
$I_{Cpulse}$	Pulsed Collector Current	tp limited by $T_{vjmax}$	900	
$P_{tot}$	Power Dissipation	$T_C=25^\circ\text{C}, T_{vjmax}=175^\circ\text{C}$	600	W
$T_{vjmax}$	Max. Virtual Junction Temperature		175	$^\circ\text{C}$

### FRED(D1、D2)

Symbol	Parameter/Test Conditions		Values	Unit
$V_{RRM}$	Repetitive Reverse Voltage	$T_{vj}=25^\circ\text{C}$	650	V
$I_F$	Continue Forward Current		60	A
$I_{FRM}$	Repetitive Peak Forward Current	tp limited by $T_{vjmax}$	120	
$P_{tot}$	Power Dissipation	$T_C=25^\circ\text{C}, T_{vjmax}=175^\circ\text{C}$	130	W
$T_{vjmax}$	Max. Virtual Junction Temperature		175	$^\circ\text{C}$

### FRED(D3、D4)

Symbol	Parameter/Test Conditions		Values	Unit
$V_{RRM}$	Repetitive Reverse Voltage	$T_{vj}=25^\circ\text{C}$	650	V
$I_F$	Continue Forward Current		240	A
$I_{FRM}$	Repetitive Peak Forward Current	tp limited by $T_{vjmax}$	960	
$P_{tot}$	Power Dissipation	$T_C=25^\circ\text{C}, T_{vjmax}=175^\circ\text{C}$	400	W
$T_{vjmax}$	Max. Virtual Junction Temperature		175	$^\circ\text{C}$

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