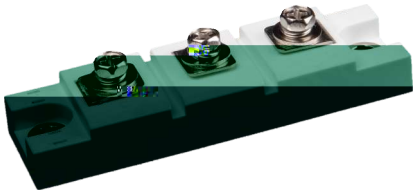
PRODUCT FEATURES

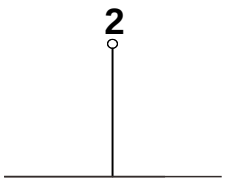
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- Ultrafast Reverse Recovery Time
- Soft Reverse Recovery Characteristics
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package



APPLICATION S

- Inversion Welder
- Uninterruptible Power Supply (UPS)
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper
- Power Factor Correction (PFC) C ircuit



ABSOLUTE MAXIMUM RATINGS

T_C=25℃ unless otherwise specified

Symbol	Parameter	Test Conditions	Values	Unit
V_R	Maximum D.C. Reverse Voltage		100	V
V_{RRM}	Maximum Repetitive Reverse Voltage		100	V
$I_{F(AV)}$	Average Forward Current	T_C=100℃, Per Diode	100	A
		T_C=100℃, 20KHz, Per Moudle	140	A
$I_{F(RMS)}$	RMS Forward Current	T_C=100℃, Per Diode	140	A
I_{FSM}	Non-Repetitive Surge Forward Current	1/2 Cycle , 50Hz, Sine	1000	A
		1/2 Cycle , 60Hz, Sine	1400	A
I^2t	I^2t (For Fusing)	T_J=45℃, t=10ms, 50Hz, Sine	8100	A^2s
		T_J=45℃, t=8.3ms, 60Hz, Sine	8300	A^2s
P_D	Power Dissipation		310	W
T_J	Junction Temperature		-40 to +150	℃
T_{STG}	Storage Temperature Range		-40 to +125	℃
V_{isol}	Insulation Test Voltage	AC, t=1min	3000	V
Torque	Module-to-Sink	Recommended（M6）	3～6	N.m
Torque	Module Electrodes	Recommended（M6）	3～6	N.m
$R_{\theta JC}$	Thermal Resistance	Junction-to-Case	0.2	℃ /W
Weight			105	g

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{RM}	Reverse Leakage Current	V_R=100V	--	--	5	uA
		V_R=100V, T_J=125℃	--	--	2	mA
V_F	Forward Voltage	I_F=100A	--	0.80	--	V
		I_F=100A, T_J=125℃	--	0.65	--	V