

### Features:

- Isolated mounting base 2500V~
- Pressure contact technology with  
Increased power cycling capability
- Space and weight savings

### Typical Applications

- Inverter
- Inductive heating
- Chopper

$I_{F(AV)}$	<b>400 A</b>
$V_{RRM}$	<b>600~1600 V</b>
$I_{FSM}$	<b>8.3 A × 10<sup>3</sup></b>
$I^2t$	<b>351 A<sup>2</sup> S × 10<sup>3</sup></b>



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>J</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>C</sub> =60°C	140			400	A
$I_F (RMS)$	RMS forward current		140			628	A
$V_{RRM}$	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	140	600		1600	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>	140			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	140			8.30	KA
$I^2t$	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				351	A <sup>2</sup> S × 10 <sup>3</sup>
$V_{FO}$	Threshold voltage		140			0.85	V
$r_F$	Forward slop resistance					0.68	mΩ
$V_{FM}$	Peak forward voltage	I <sub>FM</sub> =1200A	25			1.90	V
$t_{rr}$	Reverse recovery time	I <sub>FM</sub> =400A, tp=1000μs, -di/dt=20A/μs, V <sub>R</sub> =50V	140		4.0		μs
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.130	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.04	°C /W
$F_m$	Terminal connection torque(M10)				12		N·m
	Mounting torque(M6)				6		N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight				1820		g
Outline	406F3						

