

Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

I_{F(AV)} 1061 A
V_{R(RM)} 4000 ~ 5000V
t_{rr} 10 μs

Typical Applications

- Inverters and choppers
- AC. motor control
- Snubber and free-wheeling diodes

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _J (°C)	VALUE			UNIT
					Min	Type	Max	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Double side cooled,	T _C =85°C				1061	A
V _{R(RM)}	Repetitive peak reverse voltage	tp=10ms		150	4000		5000	V
I _{R(RM)}	Repetitive peak current	at V _{R(RM)}		150			100	mA
I _{FSM}	Surge forward current	10ms half sine wave		150			15	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{R(RM)}					1125	A ² s*10 ³
V _{FO}	Threshold voltage			150			1.73	V
r _F	Forward slope resistance						0.51	mΩ
V _{FM}	Peak forward voltage	I _{TM} =1500A, F=24kN		25			3.50	V
I _m	Reverse recovery current	I _{TM} =1000A, tp=4000μs, di/dt=-60A/μs, V _R =100V		150		330		A
t _{rr}	Reverse recovery time					10		μs
Q _{rr}	Recovery charge					1500	1800	μC
R _{th(j-c)}	Thermal resistance Junction to case	D.C.· double side cooled Clamping force 24kN					0.020	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink					0.005		
F _m	Mounting force				19		26	kN
T _{vj}	Junction temperature				-40		150	°C
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					440		g
Outline	P42							

Outline:

