

Features

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

Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$ 1400 A
 V_{RRM} 1100 ~ 2000V
 t_{rr} 6.0 μ s

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		$T_j(^{\circ}C)$	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	$T_C=85^{\circ}C$	150			1400	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10ms$		150	1100		2000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			100	mA
I_{FSM}	Surge forward current	10ms half sine wave		150			19	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					1805	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage			150			1.42	V
r_F	Forward slope resistance						0.36	m Ω
V_{FM}	Peak forward voltage	$I_{TM}=3000A, F=24kN$		25			2.80	V
I_{rm}	Reverse recovery current	$I_{TM}=1000A, t_p=4000\mu s, di/dt=-60A/\mu s, V_R=100V$		150		76		A
t_{rr}	Reverse recovery time					6		μ s
Q_{rr}	Recovery charge					228	250	μ C
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C.: double side cooled Clamping force 24kN					0.020	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005		
F_m	Mounting force				19		26	kN
T_{vj}	Junction temperature				-40		150	$^{\circ}C$
T_{stg}	Stored temperature				-40		160	$^{\circ}C$
W_t	Weight					440		g
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Outline:

