

FEATURES

- 1). Low forward voltage drop
- 2). Soft recovery
- 3). Hermetic metal cases with ceramic insulators



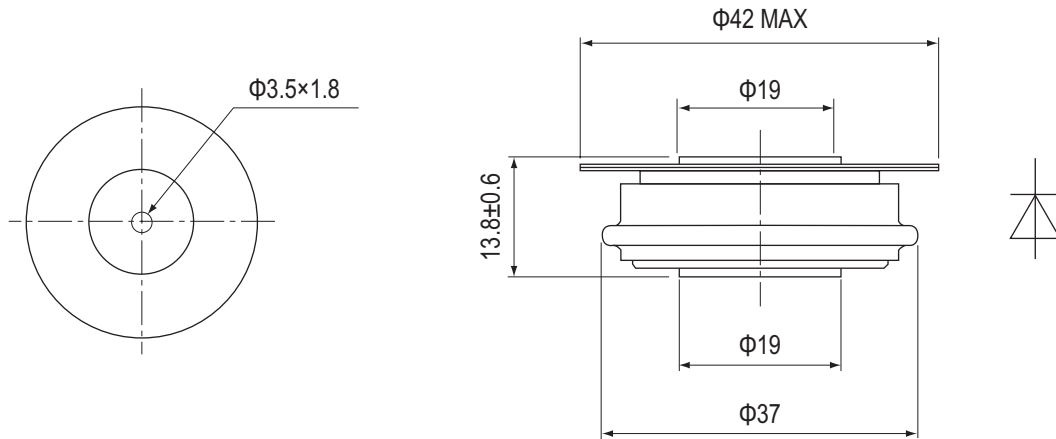
TYPICAL APPLICATIONS

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|--------------------------------------|-------------|-------------|
| 1). Inverters and choppers | $I_{F(AV)}$ | 522A |
| 2). AC. motor control | V_{RRM} | 200~1000V |
| 3). Snubber and free-wheeling diodes | t_{rr} | 2.0 μ s |

THE MAIN PARAMETERS

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, $T_{hs}=55^{\circ}C$	150			522	A
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=124^{\circ}C$	150			200	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms, $V_{RSM} = V_{RRM}+100V$	150	200		1000	V
I_{RRM}	Repetitive peak current	$V_{RM} = V_{RRM}$	150			16	mA
I_{FSM}	Surge forward current					2.7	KA
I^2t	I^2t for fusing coordination	10ms half sine wave, $V_R=0.6V_{RRM}$	150			40	A^2s*10^3
V_{FO}	Threshold voltage		150			1.10	V
r_F	Forward slop resistance					0.72	m Ω
V_{FM}	Peak on-state voltage	$I_{TM}=600A, F=5.0KN$	25			2.2	V
I_{rm}	Reverse recovery current					36	A
t_{rr}	Reverse recovery time	$I_{TM}=600A, tp=1000 \mu s,$ $di/dt=-20A/\mu s, V_R=50V$	100			2.0	μs
Q_{rr}	Recovery charge					36	μC
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine, double side cooled Clamping force 5.0KN				0.090	$^{\circ}C /W$
F_m	Mounting force			3.3		5.5	KN
T_{stg}	Stored temperature			-40		160	$^{\circ}C$
W_t	Weight					50	g
Size	Package box size					95 × 95 × 50	mm

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