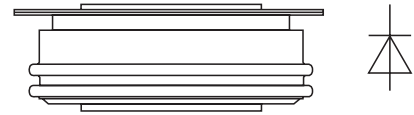


### FEATURES

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



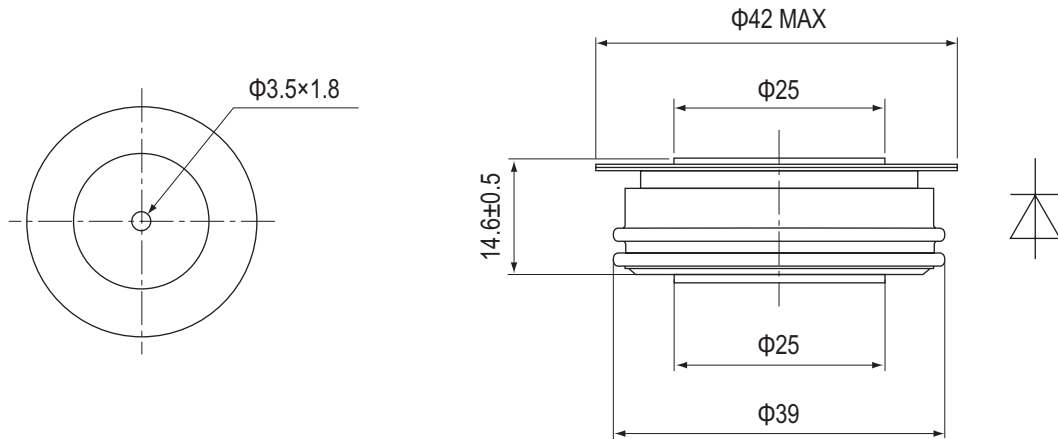
### TYPICAL APPLICATIONS

- |                                      |             |             |
|--------------------------------------|-------------|-------------|
| 1). Inverters and choppers           | $I_{F(AV)}$ | 809A        |
| 2). AC. motor control                | $V_{RRM}$   | 1100~2000V  |
| 3). Snubber and free-wheeling diodes | $t_{rr}$    | 3.0 $\mu$ 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			809	A
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=112^{\circ}C$	150			400	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms, $V_{RSM} = V_{RRM} + 100V$	150	1100		2000	V
$I_{RRM}$	Repetitive peak current	$V_{RM} = V_{RRM}$	150			30	mA
$I_{FSM}$	Surge forward current					5.4	KA
$I^2t$	$I^2t$ for fusing coordination	10ms half sine wave, $V_R = 0.6V_{RRM}$	150			145	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			1.30	V
$r_F$	Forward slop resistance					0.42	m $\Omega$
$V_{FM}$	Peak on-state voltage	$I_{TM} = 1200A, F = 7.0KN$	25			2.4	V
$I_{rm}$	Reverse recovery current					46	A
$t_{rr}$	Reverse recovery time	$I_{TM} = 600A, tp = 1000 \mu s,$ $di/dt = -20A/\mu s, V_R = 50V$	100			3.0	$\mu s$
$Q_{rr}$	Recovery charge					63	$\mu C$
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine, double side cooled Clamping force 7.0KN				0.055	$^{\circ}C/W$
$F_m$	Mounting force			5.3		10	KN
$T_{stg}$	Stored temperature			-40		160	$^{\circ}C$
$W_t$	Weight					80	g
Size	Package box size					95 × 95 × 50	mm

**OUTLINE**



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