Type C718 thyristor is suitable for phase control applications such as HMC valves, static VAR compensators and synchronous motor drives.

The silicon junction is manufactured by the proven multi-diffusion process and is supplied in an industry standard disc-type package, ready to mount to forced or naturally cooled heat dissipators using cormercially available mechanical clamping hardware.


$\mathrm{A} \Phi=2.96$ in (75.2 mm) $B \Phi=1.90$ in ( 48.3 mm ) $\mathrm{D}=1.07$ in ( 27.2 mm )

REPETITIVE PEAK REVERSE AND OFF-STATE BLOCKING VOLTAGE $\mathrm{T}_{\mathrm{s}}=0$ to $125^{\circ} \mathrm{C}$

| MODEL | $\mathrm{V}_{\text {DRM }}$ <br> (todits) | $\mathrm{V}_{\text {RRM }}$ <br> (foits) |
| :--- | :---: | :---: |
| C718EP | 5000 | 5000 |
| C718DT | 4900 | 4900 |
| C718DN | 4800 | 4800 |
| C718DS | 4700 | 4700 |
| C718DM | 4600 | 4600 |
| C718DE | 4500 | 4500 |

Full Cycle Average Power Loss per C718 Thyristor


FULL CYCLE AVERAGE POWER LOSS
versus
PEAK CURRENT at $50 / 60 \mathrm{~Hz}$
(plasma spreading and conduction loss)


MAXIMUM PEAK RECOVERY CURRENT versus COMMUTATING di/dt


## GATE SUPPLY REQUIREMENTS

$$
\begin{array}{ll}
\text { Open cirait voltage } & 30 \mathrm{~V} \\
\text { Short cirait arrent } & 3 \mathrm{~A} \\
\text { - rise time } & 0.5 \mathrm{us}
\end{array}
$$

Pulse duration (min)
20 us

