## HiPerFRED ${ }^{\text {TM }}$ Epitaxial Diode with common cathode and soft recovery

| $V_{\text {RSM }}$ <br> $V$ | $V_{\text {RRM }}$ <br> $V$ | Type |
| :---: | :---: | :--- |
| 200 | 200 | DSEC 16-02A |



| $\mathrm{I}_{\text {FAV }}$ | $=2 \times 8 \mathrm{~A}$ |
| ---: | :--- |
| $\mathrm{~V}_{\text {RRM }}$ | $=200 \mathrm{~V}$ |
| $\mathrm{t}_{\text {rr }}$ | $=25 \mathrm{~ns}$ |

TO-220 AB


A = Anode, $\mathrm{C}=$ Cathode, $\mathrm{TAB}=$ Cathode

## Features

- International standard package
- Planar passivated chips
- Very short recovery time
- Extremely low switching losses
- Low $\mathrm{I}_{\mathrm{Rm}}$-values
- Soft recovery behaviour
- Epoxy meets UL 94V-0


## Applications

- Antiparallel diode for high frequency switching devices
- Antisaturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders


## Advantages

- Avalanche voltage rated for reliable operation
- Soft reverse recovery for low EMI/RFI
- Low $I_{\text {RM }}$ reduces:
- Power dissipation within the diode
- Turn-onloss inthe commutating switch


## Dimensions see Outlines.pdf

Pulse test: (1) Pulse Width = 5 ms , Duty Cycle $<2.0$ \%
(2) Pulse Width $=300 \mu \mathrm{~s}$, Duty Cycle $<2.0 \%$

Data according to IEC 60747 and per diode unless otherwise specified
IXYS reserves the right to change limits, test conditions and dimensions.
20080317a

Recommended replacement: DPG20C200PB

