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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


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## Common Cathode Fast Recovery Epitaxial Diode (FRED)

| $V_{\text {RSM }}$ <br> $V$ | $V_{\text {RRM }}$ <br> $V$ | Type |
| :---: | :---: | :--- |
| 200 | 200 | DSEK 60-02A |
| 200 | 200 | DSEK 60-02AR |



TO-247 AD
Version A
ISOPLUS $247^{\text {™ }}$


Version AR


A = Anode,$C=$ Cathode

## Features

- International standard package

JEDEC TO-247 AD

- Planar passivated chips
- Very short recovery time
- Extremely low switching losses
- Low $\mathrm{I}_{\mathrm{Rm}}$-values
- Soft recovery behavior
- Epoxy meets UL 94V-0 flammability classification
- Version AR isolated and UL registered E153432


## Applications

- Rectifiers in switch mode power supplies (SMPS)
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders


## Advantages

- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching
- Low losses
- Operating at lower temperature or space saving by reduced cooling

| Symbol | Test Conditions |  | Characteristic Values per leg <br> typ. |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | max. |

[^0]Data according to IEC 60747 refer to a single diode unless otherwise stated.
IXYS reserves the right to change limits, test conditions and dimensions


Fig. 1 Forward current $I_{F}$ versus $V_{F}$


Fig. 4 Dynamic parameters $Q_{r}, I_{R M}$ versus $T_{v j}$


Fig. 2 Typ. reverse recovery charge Q versus $-\mathrm{di}_{\mathrm{F}} / \mathrm{dt}$


Fig. 5 Typ. recovery time $t_{\text {rr }}$ versus -dif $/ d t$


Fig. 3 Typ. peak reverse current $\mathrm{I}_{\mathrm{RM}}$ versus -dif $/ \mathrm{dt}$


Fig. 6 Typ. peak forward voltage $V_{F R}$ and $t_{\mathrm{ft}}$ versus di/dt

Dimensions

Fig. 7 Transient thermal impedance junction to case


[^0]:    * $\mathrm{I}_{\text {FAVM }}$ rating includes reverse blocking losses at $\mathrm{T}_{\text {VJM }}, \mathrm{V}_{\mathrm{R}}=0.8 \mathrm{~V}_{\text {RRM }}$, duty cycle $\mathrm{d}=0.5$

