## FAST RECOVERY DIODE

Features

- Insulated package by fully molding
- Super high speed switching
- Low VF in turn on
- High reliability
- Applications
- High speed power switching

Maximum ratings and characteristics

- Absolute maximum ratings

| Item | Symbol | Conditions | Rating |  | Unit |
| :--- | :--- | :--- | :---: | :---: | :---: |
|  |  |  | -06 |  |  |
| Repetitive peak reverse voltage | VRRM |  | 400 | 600 | V |
| Non-repetitive peak reverse voltage | VRSM |  | 400 | 600 | V |
| Isolating voltage | Viso | Terminals-to-case, AC. 1min. | 1500 | V |  |
| Average output current | lo | Square wave, duty=1/2, TC=85 ${ }^{\circ} \mathrm{C}$ | $10^{*}$ | A |  |
| Surge current | IFSM | Sine wave 10ms | 50 | A |  |
| Operating junction temperature | $\mathrm{T}_{\mathrm{j}}$ |  | -40 to +150 | ${ }^{\circ} \mathrm{C}$ |  |
| Storage temperature | $\mathrm{T}_{\text {stg }}$ |  | -40 to +150 | ${ }^{\circ} \mathrm{C}$ |  |

*Average forward current of centertap full wave connection

- Electrical characteristics ( $\mathrm{Ta}=25^{\circ} \mathrm{C}$ Unless otherwise specified)

| Item | Symbol | Conditions | Max. | Unit |
| :---: | :---: | :---: | :---: | :---: |
| Forward voltage drop | Vfm | $\mathrm{IFM}=4 \mathrm{~A}$ | 2.5 | V |
| Reverse current | IRRM | $V_{R}=V_{\text {Rra }}$ | 100 | $\mu \mathrm{A}$ |
| Reverse recovery time | $t r$ | $\mathrm{IF}_{\mathrm{F}}=0.1 \mathrm{~A}, \mathrm{lR}=0.2 \mathrm{~A}, \mathrm{lrec}=0.05 \mathrm{~A}$ | 50 | ns |
| Thermal resistance | Rth(-c) | Junction to case | 2.5 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |

- Characteristics

Forward characteristics


Forward power dissipation


J unction capacitance characteristics


Reverse characteristics


Output current-case temperature


Surge capability


Transient thermal impedance


