W 4A010065E

| | | | |
|---|---|---|---|
| $V_{RRM}$ | = | 650 | V |
| $I_F$ ( $T_C$ ) | = | 19 | A |
| $Q_C$ | = | 25 | nC |

S



## Electrical Characteristics

| Symbol | Parameter | Typ. | Max. | Unit | Test Conditions | Note |
|---|---|---|---|---|---|---|
| $V_F$ | Forward Voltage | 1.27<br>1.38 | 1.5<br>1.6 | V | $I_F$ = 10A, $T_J$ = 25<br>$I_F$ = 10A, $T_J$ = 175 | Fig.1 |
| $I_R$ | Reverse Current | 6<br>25 | 50<br>200 | μA | $V_R$ = 650V, $T_J$ = 25<br>$V_R$ = 650V, $T_J$ = 175 | Fig.2 |
| C | Total Capacitance | 640<br>66<br>48 | / | pF | $V_R$ = 0.1V, $T_J$ = 25 , f = 1MHz<br>$V_R$ = 200V, $T_J$ = 25 , f = 1MHz<br>$V_R$ = 400V, $T_J$ = 25 , f = 1MHz | Fig.5 |
| $Q_C$ | Total Capacitive Charge | 25 | / | nC | $V_R$ = 400V, $I_F$ = 10A<br>di/dt = 200A/μs, $T_J$ = 25 | Fig.4 |

## Thermal Characteristics

| | Parameter | S Typ. | Unit | Note |
|---|---|---|---|---|
| $R_{\theta JC}$ | Thermal Resistance from Junction to Case | 1 | /W | Fig.6 |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient | 80 | | |

# Notes

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