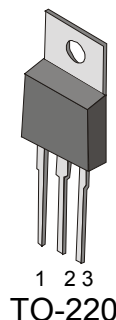


IWR 0520F; IWR0520FM; IWR0520U; IWR 0260U; IWR0520UM

HIGH VOLTAGE FAST RECTIFIER DIODES & DIODES ARRAYS



MAXIMUM RATINGS

| Rating | Symbol | IWR 0520F IWR 0520FM | IWR 0520U | IWR 0260 U | IWR 0520UM | Unit. |
|---|-----------|-------------------------|-----------|------------|------------|------------------|
| Peak Repetitive Reverse Voltage | U_{RR} | 200 | 200 | 600 | 200 | V |
| Peak Rectified Forward Current $t_j=175^\circ\text{C}$ | I_F | 5 | 5 | 2 | 5 | A |
| Nonrepetitive Peak Surge Current , $t \leq 8 \text{ ms}$ | I_{FS} | 35 | 35 | 14 | 35 | A |
| Operating Junction Temperature | T_J | +175 | | | | $^\circ\text{C}$ |
| Storage Temperature | T_{STG} | -65 ... +175 | | | | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS for $T_{AMB}=25^\circ\text{C}$

| Rating (Mode of measure) | Symbol | IWR 0520F IWR 0520FM | IWR 0520U | IWR 0260 U | IWR 0520UM | Unit. |
|---|-----------------|-------------------------|-----------|------------|------------|---------------------------|
| Maximum Instantaneous Forward Voltage * (I_{FMAX}) | U_R | 1,1 | 1,2 | 1,7 | 1,2 | V |
| Maximum Instantaneous Reverse Current * (U_{RRMAX}) | I_R | 50 | | | | μA |
| Maximum Reverse Recovery Time ($I_F=1 \text{ A}$, $di/dt=50 \text{ A}/\mu\text{s}$, $U_{RR}=30 \text{ V}$, $I_{REC}=10\% I_R$) | t_{REC} | 250 | 25 | 60 | 25 | Ns |
| Maximum Thermal Resistance, Junction to Case | $R_{\theta JC}$ | 4,5 | | | | $^\circ\text{C}/\text{W}$ |

* $t_p \leq 300 \mu\text{s}$, $Q \geq 50$

IWR 0520F; IWR0520U; IWR 0260U – diodes (pinning: pin 2 – cathode , pin 3 - anode)

IWR0520FM; IWR0520UM – diode array with common cathode (pinning: pin 1- anode 1, pin 2- common cathode, pin 3 - anode 2)



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