

Ultra fast Rectifier

BYV415K-600P

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-mb}$	Thermal Resistance, Junction to Mounting Base	2.0	°C/W

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$) (Pulse Test: Pulse Width=300 μ s, Duty Cycle \leq 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=10\text{A}; T_c=25^\circ\text{C}$ $I_F=10\text{A}; T_c=150^\circ\text{C}$	2.1 1.4	V
I_R	Maximum Instantaneous Reverse Current	$V_R=V_{RWM}; T_c=25^\circ\text{C}$ $V_R=V_{RWM}; T_c=150^\circ\text{C}$	10 500	μ A
t_{rr}	Maximum Reverse Recovery Time	$I_F=1\text{A}; V_R=30\text{V}; diF/dt=100\text{A}/\mu\text{s}$	50	ns

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