

Features

- Low power loss,high efficiency
- High reliability
- RoHS product



Applications

- Switch power supply
- General circuits
- UPS



Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbol	Test Conditions	Values	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		1500	V
Average Output Current	$I_{F(AV)}$	$T_c=100^\circ\text{C}$	15	A
Peak one Cycle Surge Forward Current	I_{FSM}	Sine wave 10ms	150	A
power dissipation	P_D		84	W
Junction Temperature	T_J		-50 ~ 150	°C
Storage Temperature Range	T_{STG}		-50 ~ 150	
Thermal Resistance	$R_{\theta JC}$	Junction-to-Case	1.5	°C/W

Electrical Characteristics(Tc=25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit	
Reverse Current	I_{RRM}	$V_R=V_{RRM}$	$T_j=25^\circ\text{C}$	-	-	50	μA
			$T_j=125^\circ\text{C}$	-	-	200	μA
Forward Voltage Drop	V_{FM}	$I_{FM}=15.0\text{A}$	$T_j=25^\circ\text{C}$	-	0.8	1.5	V
			$T_j=125^\circ\text{C}$	-	-	1.2	V
Reverse Recovery Time	t_{rr}	$I_F=1\text{A}, V_R=30\text{V}$ $diF/dt=-200\text{A}/\mu\text{s}$	-	40	60	ns	

