

■ **ABSOLUTE MAXIMUM RATINGS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified.)

PARAMETER		SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage		V_{RRM}	200	V
Average Output Current (Note 1)	50Hz Square Wave Duty=1/2, $T_C=115^{\circ}\text{C}$	I_O	20	A
Non-Repetitive Forward Surge Current (Note 2)	Sine Wave, 10ms 1shot	I_{FSM}	100	A
Operating Junction Temperature		T_J	150	$^{\circ}\text{C}$
Storage Temperature		T_{STG}	-40~+150	$^{\circ}\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **THERMAL RESISTANCE**

PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Case	TO-247	θ_{JC}	1.5	$^{\circ}\text{C}/\text{W}$
	TO-3P		1.45	$^{\circ}\text{C}/\text{W}$

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage (Note 2)	V_F	$I_F=10\text{A}$			0.95	V
Reverse Current (Note 2)	I_R	$V_R=V_{RRM}$			200	μA
Reverse Recovery Time (Note 2)	t_{rr}	$I_F=0.1\text{A}$, $I_R=0.2\text{A}$, $I_{rec}=0.05\text{A}$			0.04	μs

Notes: 1. Out put current of center tap full wave connection.
2. Rating per element

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