

PFC Circuit

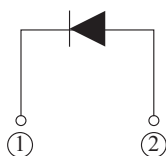
FEATURES

- Ultra-Fast Recovery Time for High Efficiency.
- Low Forward Voltage Drop, High Current Capability and Low Power Loss.

APPLICATION

- Switching Power Supply.
- Home Appliances, Office Equipment.
- Telecommunication, Factory Automation.

POLARITY

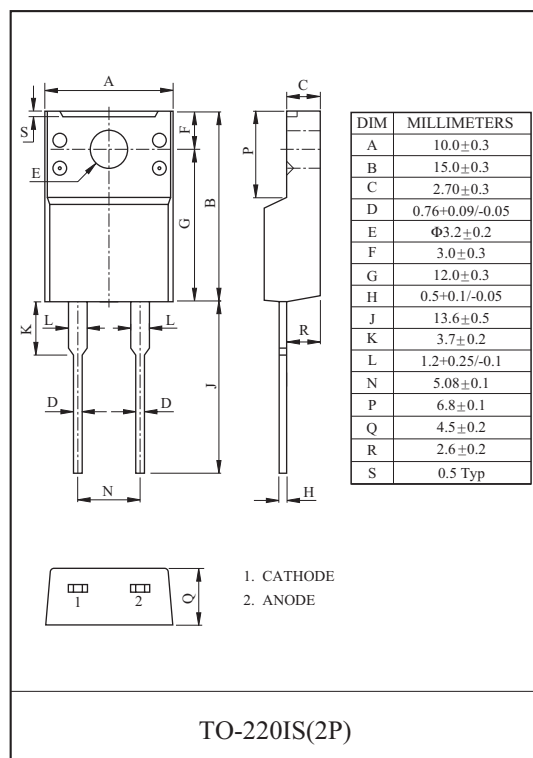


MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Reverse Voltage	V_{RM}	700	V
Average Output Rectified Current	I_O	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive, $t_p=8.3ms$, Sinewave Pulse)	I_{FSM}	80	A
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=10A$	-	-	2.5	V
Reverse Current	I_{RM}	$V_{RM}=700V$	-	-	1	μA
Total Capacitance	C_T	$V_R=0V$, $f=1MHz$	-	90	-	pF
Reverse Recovery Time	t_{rr}	$I_F=1A$, $V_R=30V$, $di/dt=-50A/\mu s$	-	-	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	5	°C/W



U10A7CI

