

PFC Circuit.

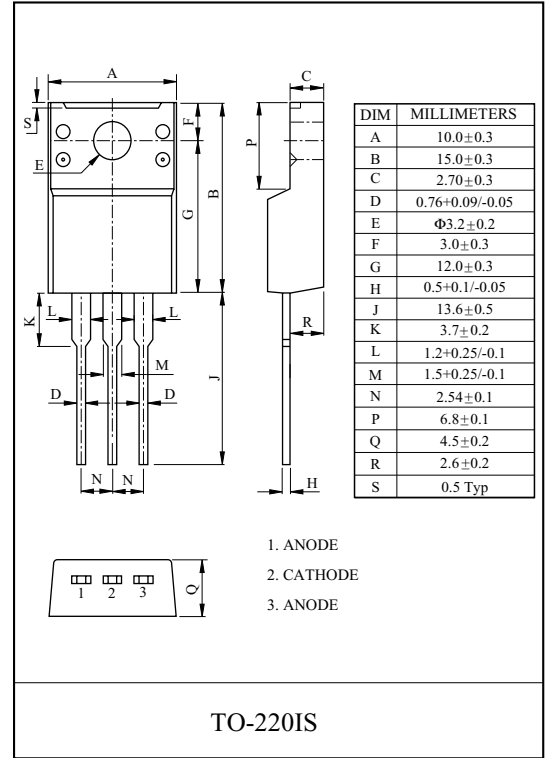
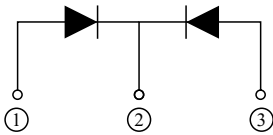
FEATURES

- 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 RATINGS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Reverse Voltage	V_{RM}	600	V
Average Output Rectified Current (Tc=94 °C) (Note1)	I_O	20	A
Peak One Cycle Surge Forward Current (Non-Repetitive, tp=10ms)	I_{FSM}	180	A
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=10A$	-	1.5	2.0	V
Reverse Current	I_{RM}	$V_{RM}=600V$	-	-	30	μA
Reverse Recovery Time	t_{rr}	$I_F=1.0A, V_R=30V, di/dt=-50A/μs$	-	24	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	5.0	/W

U20A6CIC

