

HIGH SPEED RECTIFIER APPLICATION.

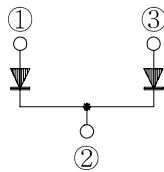
FEATURES

- Average Output Rectified Current : $I_O=10A$ ($T_c=101^\circ C$).
- Repetitive Peak Reverse Voltage : $V_{RRM}=200V$.
- Rectifier Stack of Single Phase Center Tap Type.

POLARITY

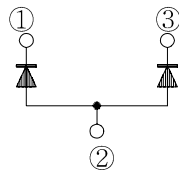
•CC TYPE

•CATHODE COMMON



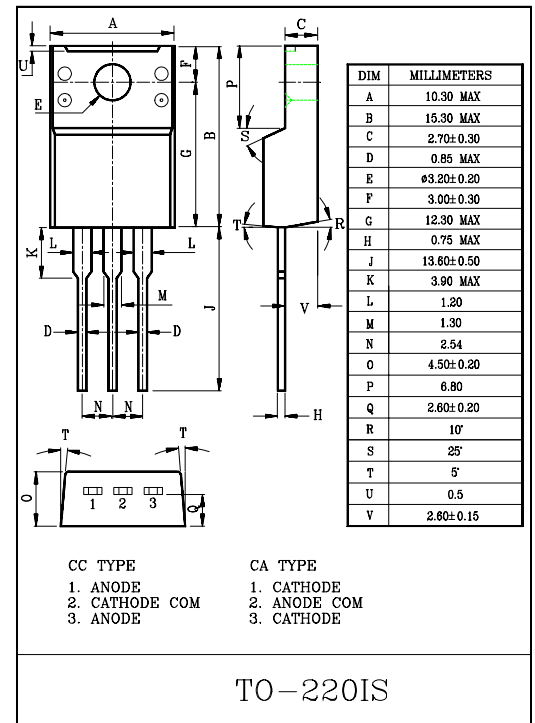
•CA TYPE

•ANODE COMMON



MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Output Rectified Current ($T_c=101^\circ C$) (Fig.)	I_O	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	60 (50Hz) 70 (60Hz)	A
Junction Temperature	T_j	$-40 \sim 150$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$

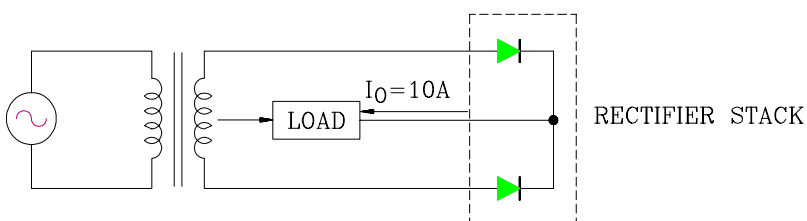


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

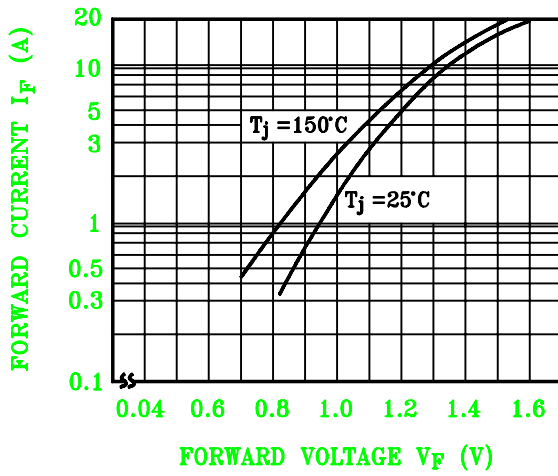
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note)	V_{FM}	$I_{FM}=5A$	-	-	1.4	V
Repetitive Peak Reverse Current (Note)	I_{RRM}	$V_{RRM}=\text{Rated}$	-	-	10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.1A, I_R=0.1A$	-	-	400	nS
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3.5	$^\circ C/W$

Note : A Value of one cell.

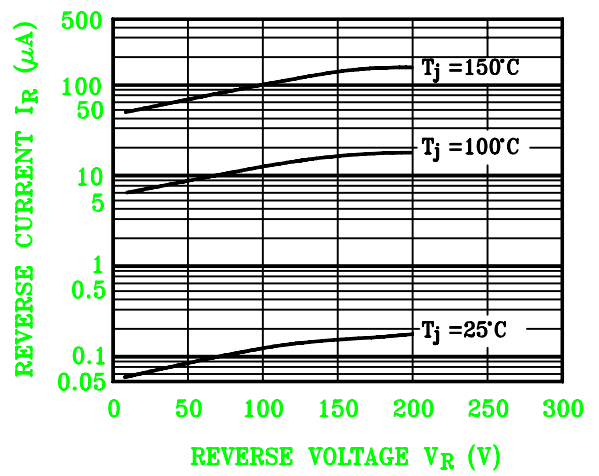
Fig. EXAMPLE OF RECTIFYING CIRCUIT



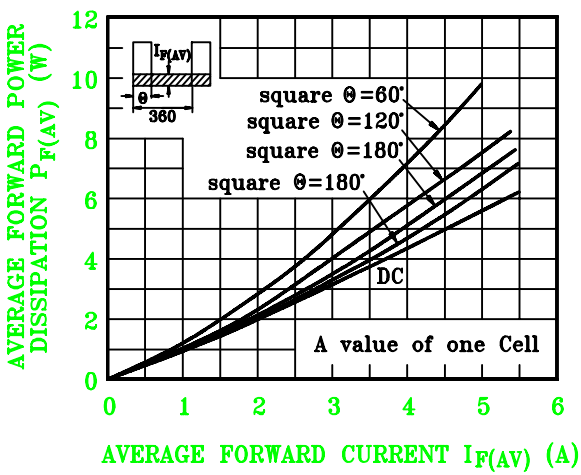
$I_F - V_F$



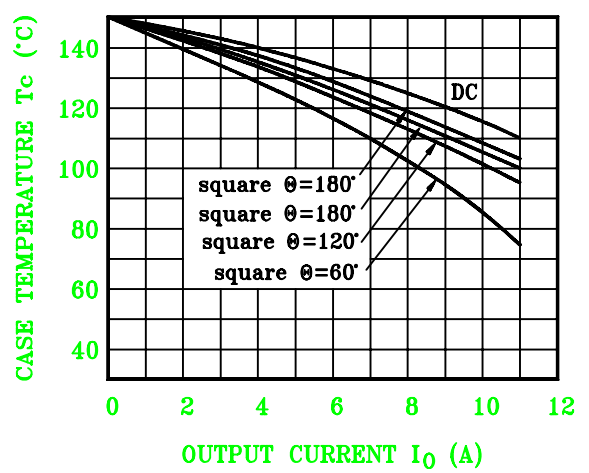
$I_R - V_R$



$P_{F(AV)} - I_{F(AV)}$



CURRENT DERATION (CASE)



SURGE FORWARD CURRENT
(NON-REPETITIVE)

