

HIGH SPEED RECTIFIER APPLICATION.

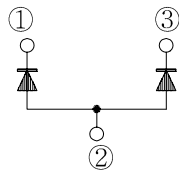
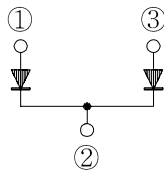
FEATURES

- Average Output Rectified Current : $I_o=10A(T_c=108^\circ C)$.
- Repetitive Peak Reverse Voltage : $V_{RRM}=200V$.
- Rectifier Stack of Single Phase Center Tap Type.

POLARITY

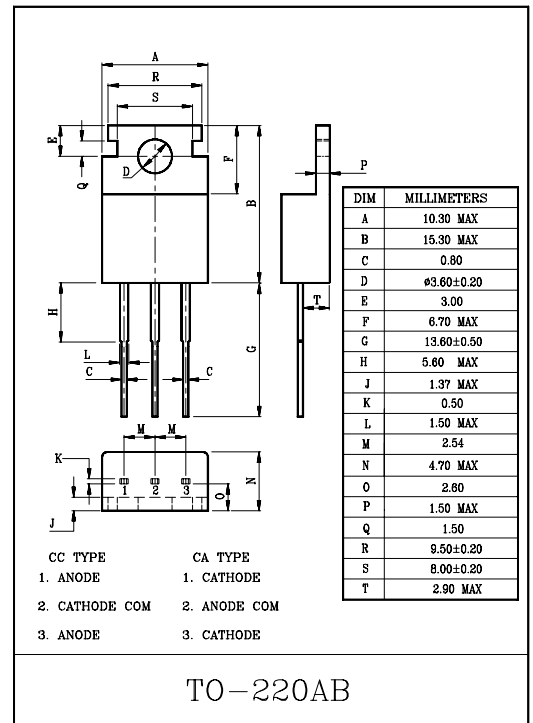
- CC TYPE
- CATHODE COMMON

- CA TYPE
- ANODE COMMON



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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	F1B2CC F1B2CA	V_{RRM}	200	V
Average Output Rectified Current ($T_c=108^\circ C$) (Fig.)		I_o	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	60 (50Hz)	A
			70 (60Hz)	
Junction Temperature		T_j	-40~150	$^\circ C$
Storage Temperature Range		T_{stg}	-40~150	$^\circ C$

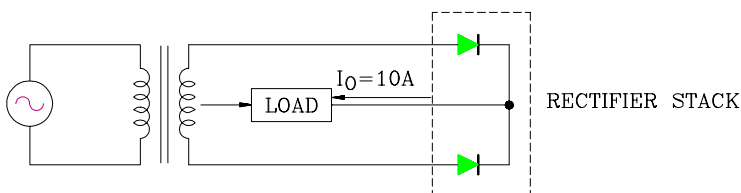


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

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	-	-	3.0	$^\circ C/W$

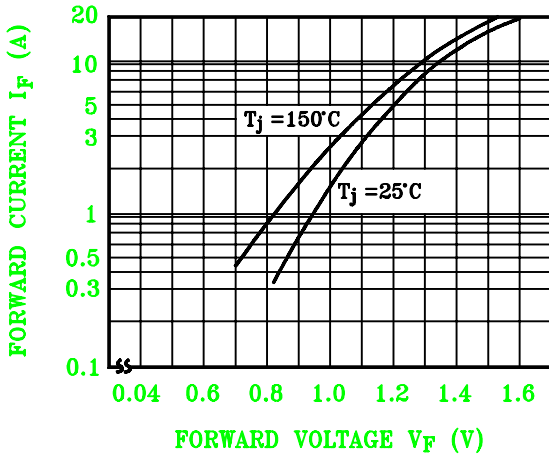
Note : A Value of one cell.

Fig. EXAMPLE OF RECTIFYING CIRCUIT

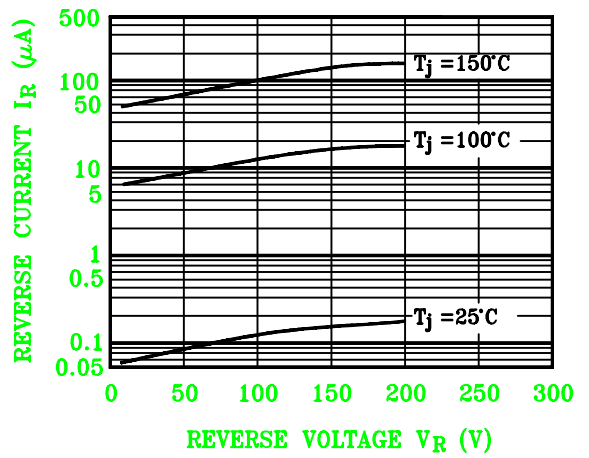


F1B2CC/CA

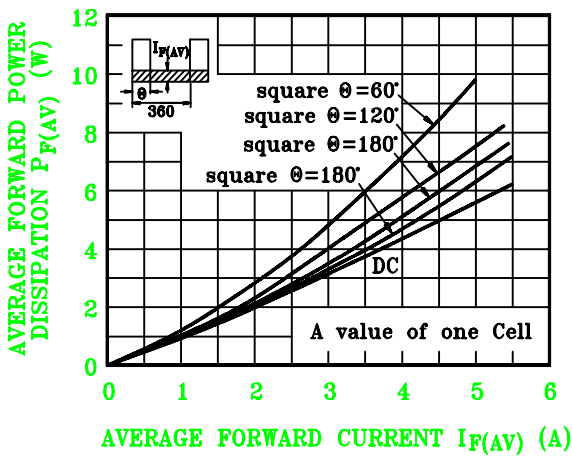
$I_F - V_F$



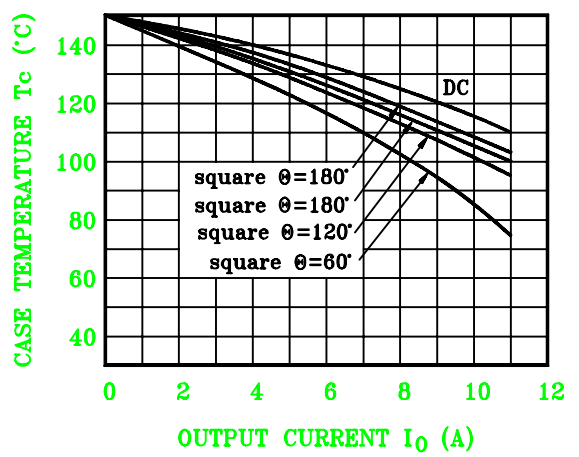
$I_R - V_R$



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



CURRENT DERATION (CASE)



SURGE FORWARD CURRENT (NON-REPETITIVE)

