

RECTIFIER STACK (SCHOTTKY BARRIER DIODE STACK)

39 DE 9097250 0002344 6

5GWJ2C41 40V 5A

MAXIMUM RATINGS

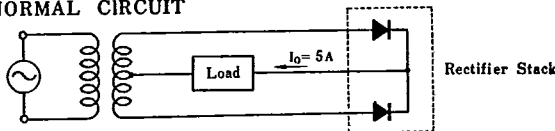
CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Current	5FWJ2C41	VRRM	30	V
	5GWJ2C41		40	
Average Output Rectified Current (Tc=135°C) (Fig. 1)		I _o	5	A
Peak One Cycle Surge Forward Current		IFSM	100 (50Hz)	A
Junction Temperature		T _j	-40~150	°C
Storage Temperature Range		T _{stg}	-40~150	°C

ELECTRICAL CHARACTERISTICS

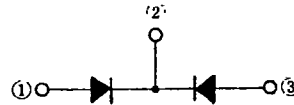
CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} =2.5A, T _a =25°C	-	-	0.68	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} =Rated, T _j =150°C	-	-	10	mA
Reverse Recovery Time	t _{rr}	I _{FM} =2.5A, T _a =25°C di/dt=30A/μs	-	-	200	ns
Junction Capacitance	C _j	V _R =10V, f=100KHz	-	0.13	-	nF
Thermal Resistance	R _{th(j-c)}	DC, Junction to Case.	-	-	5.0	°C/W

Fig. 1 Circuit For Average Output Rectified current.

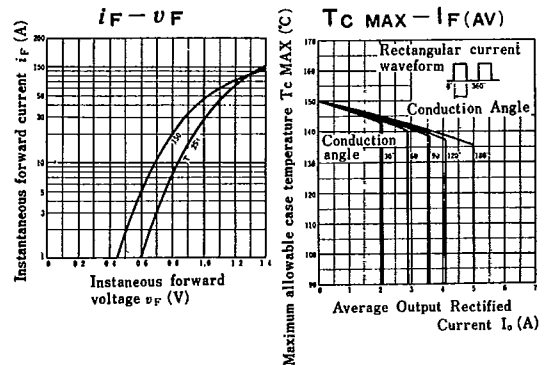
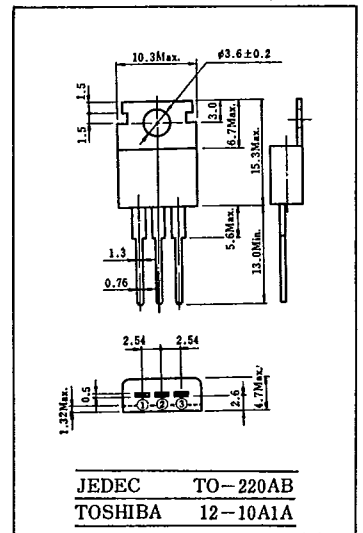
NORMAL CIRCUIT



POLARITY



Unit in mm

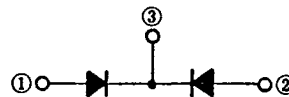


10GWJ2C11 40V 10A

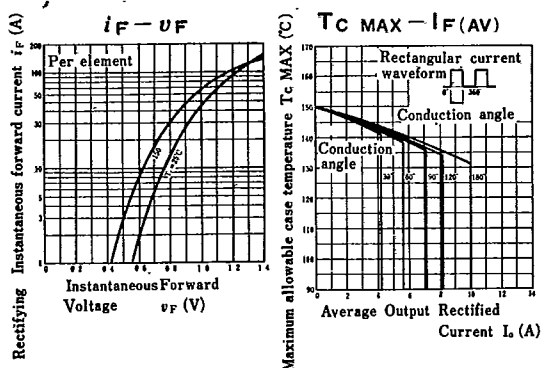
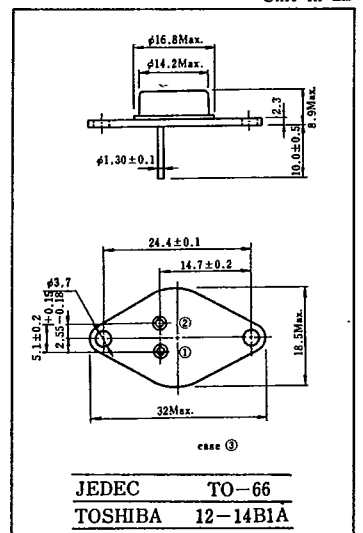
MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Current	10FWJ2C11	VRRM	30	V
	10GWJ2C11		40	
Average Output Rectified Current (Tc=131°C) (Fig. 1)		I _o	10	A
Peak One Cycle Surge Forward Current		IFSM	150 (50Hz)	A
Junction temperature		T _j	-40~150	°C
Storage Temperature Range		T _{stg}	-40~150	°C

POLARITY INDICATION CIRCUIT DIAGRAM



Unit in mm



ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYPE	MAX.	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} =5A, T _a =25°C	-	-	0.68	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} =Rated, T _j =150°C	-	-	10	mA
Reverse Recovery Time	t _{rr}	I _{FM} =5A, T _a =25°C di/dt=30A/μs	-	-	200	ns
Junction Capacitance	C _j	V _R =10V, f=100KHz	-	0.21	-	nF
Thermal Resistance	R _{th(j-c)}	DC, Junction to Case	-	-	3.0	°C/W

Notes : 1. To mount the rectifier stack on the heat sink, coat the contact surface with grease in advance.

NORMAL CIRCUIT

