

TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

30Q6P45, 30U6P45

THREE PHASE FULL WAVE BRIDGE APPLICATIONS
INVERTER EQUIPMENT FOR AC MOTOR CONTROL
CHOPPER EQUIPMENT FOR DC MOTOR CONTROL
DC SUPPLY FOR BATTERY
OTHER POWER CONVERSION EQUIPMENT

- Repetitive Peak Reverse Voltage : $V_{RRM}=1200、1600V$
- Average Output Rectified Current : $I_O=30A$
- Isolation Voltage : $V_{Isol}=2500V$ AC 60s
- Single In-line Package

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	30Q6P45	V _{RRM}	1200	V
	30U6P45		1600	
Average Output Rectified Current		I _O	30	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I _{FSM}	300 (50Hz)	A
			330 (60Hz)	
Junction Temperature		T _j	−40~150	°C
Storage Temperature		T _{stg}	−40~125	°C
Screw Torque (Note 1)		—	1.5	Nm
Isolation Voltage (AC, t=60s)		V _{Isol}	2500	V

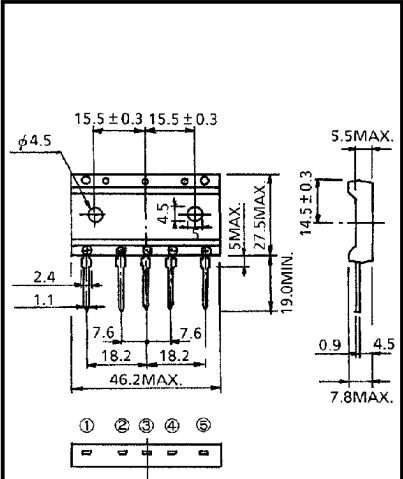
Note 1 : Recommended torque 1.2Nm

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM} (Note 2)	V_{RRM} =Rated	—	100	μA
Peak Forward Voltage	V_{FM} (Note 2)	I_{FM} =30A	—	1.3	V
Thermal Resistance	$R_{th(j-c)}$	DC (Total) (Junction-Case)	—	0.8	°C / W
	$R_{th(j-a)}$	Free Convection (Junction-Ambient)	—	15	

Note 2 : A value per rectifier unit.

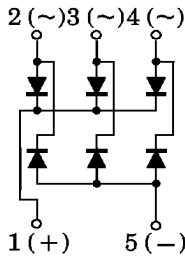
Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	12-46A1A

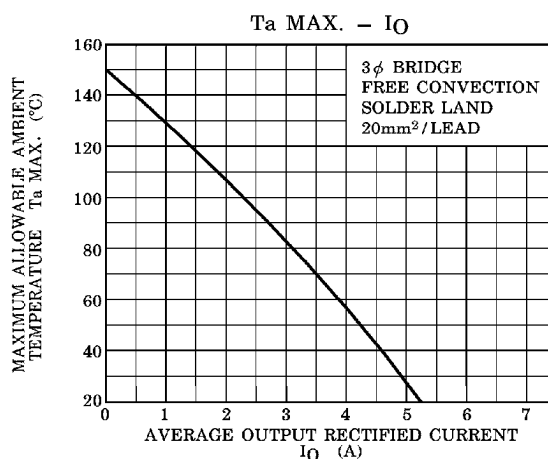
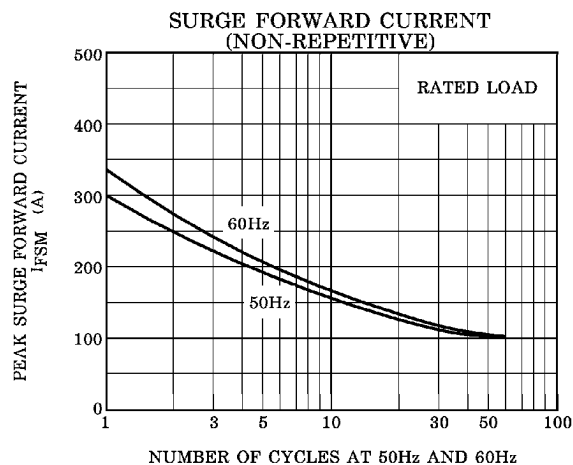
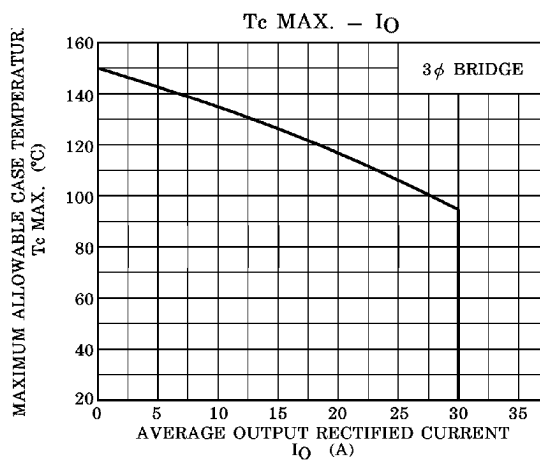
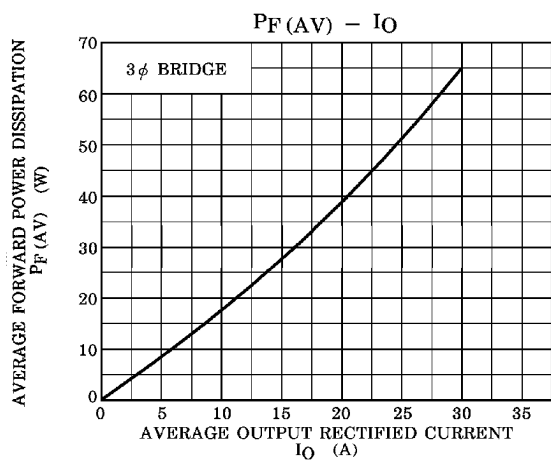
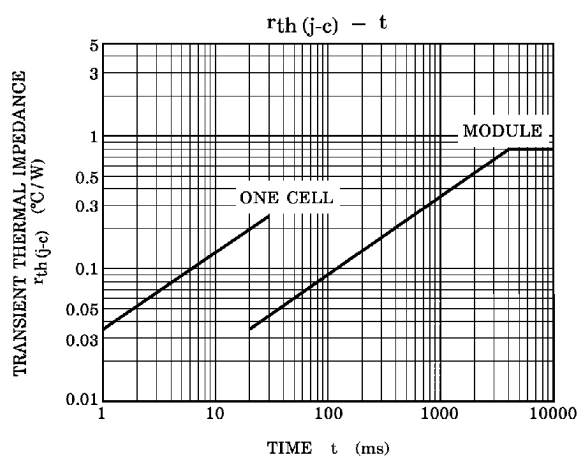
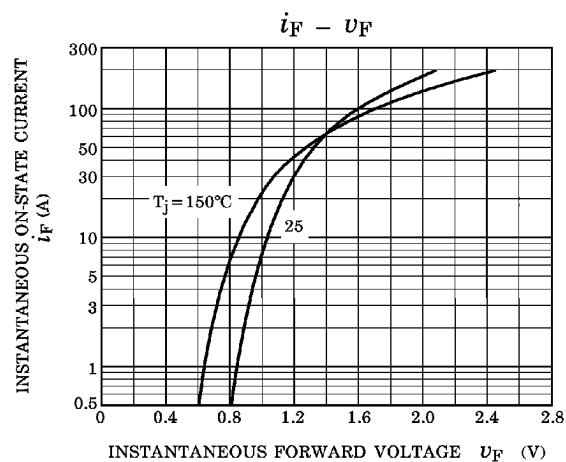
Weight : 24g

CONNECTION



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