

TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

30L6P45

Unit in mm

- 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 : $V_{RRM}=800V$
- Average Output Rectified Current : $I_O=30A$
- Isolation Voltage : $V_{Isol}=2000V$ AC 60s
- Single In-line Package

MAXIMUM RATINGS (Ta = 25°C)

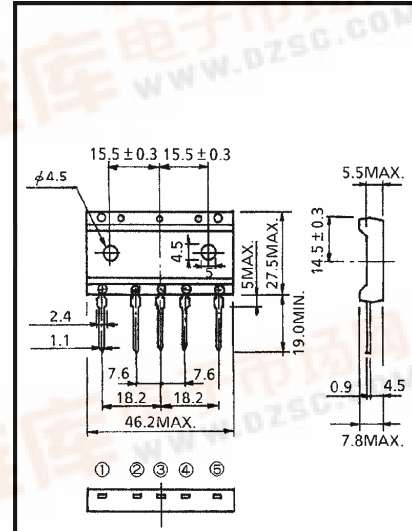
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	800	V
Average Output Rectified Current (Tc=97°C)	I_O	30	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	400 (50Hz)	A
		440 (60Hz)	
Junction Temperature	T_j	-40~150	°C
Storage Temperature	T_{stg}	-40~125	°C
Screw Torque (Note 1)	—	1.5	N·m
Isolation Voltage (AC, t=60s)	V_{Isol}	2000	V

Note 1 : Recommended torque 1.2 Nm

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM} (Note 2)	$V_{RRM}=800V$	—	100	μA
Peak Forward Voltage	V_{FM} (Note 2)	$I_{FM}=30A$	—	1.2	V
Thermal Resistance	$R_{th(j-c)}$	DC (Total) (Junction-Case)	—	0.8	°C/W
	$R_{th(j-a)}$	Free Convection (Junction-Ambient)	—	15	°C/W

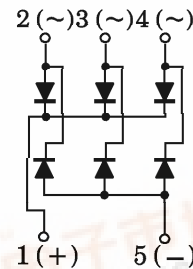
Note 2 : A value per rectifier unit.

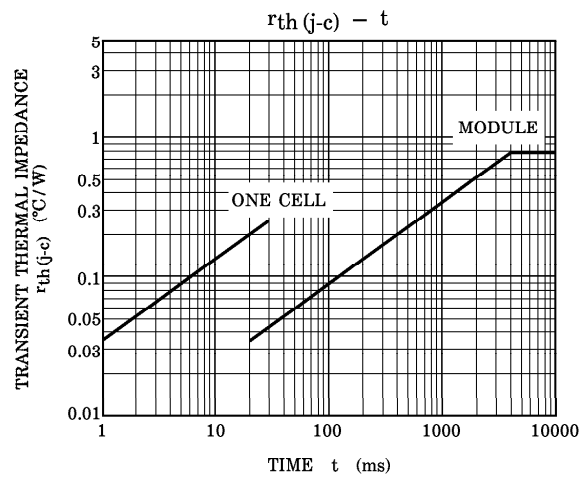
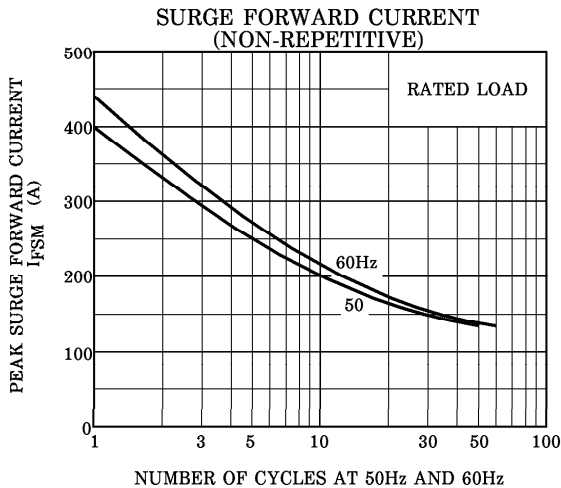
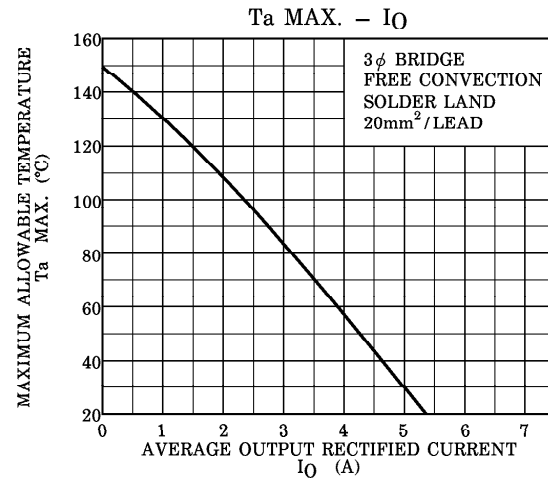
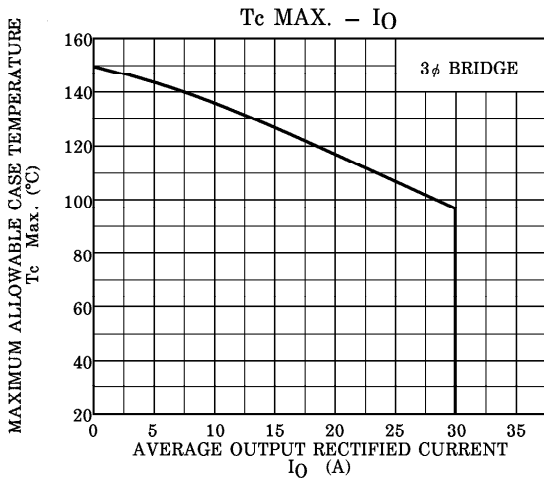
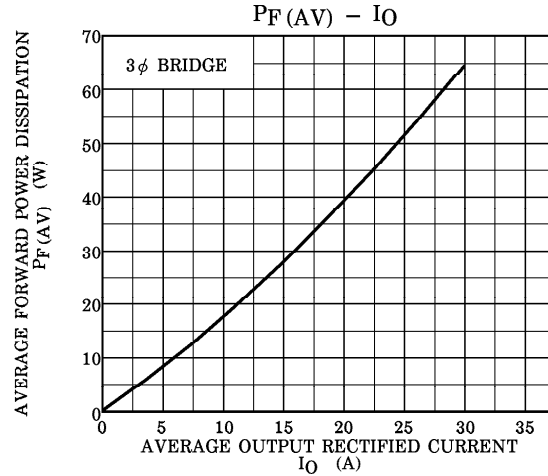
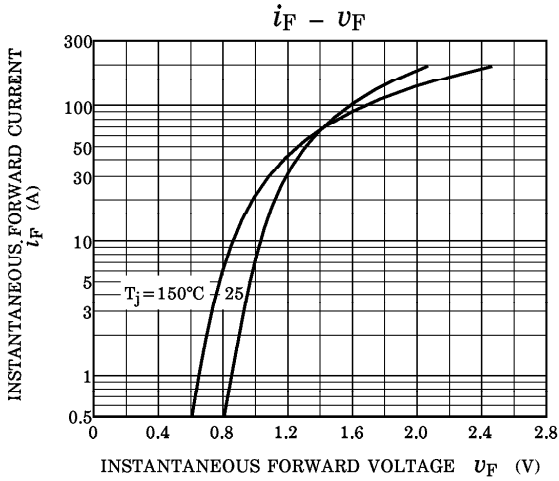


JEDEC	—
EIAJ	—
TOSHIBA	12-46A1A

Weight : 24g

CONNECTION





● The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.

● The information contained herein is subject to change without notice.