

TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

30L6P45

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

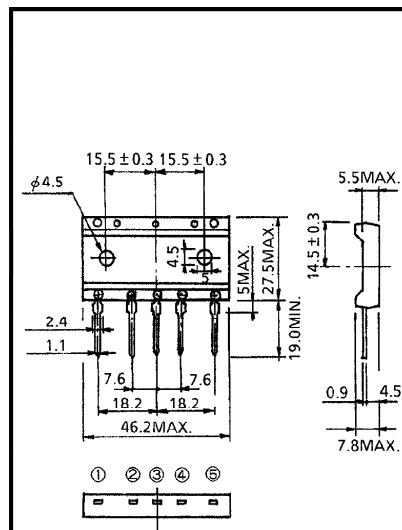
- Repetitive Peak Reverse Voltage : $V_{RRM}=800V$
- Average Output Rectified Current : $I_O=30A$
- Isolation Voltage : $V_{Isol}=2000V$ AC 60s
- Single In-line Package

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	800	V
Average Output Rectified Current ($T_c=97^\circ C$)	I_O	30	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	400 (50Hz) 440 (60Hz)	A
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

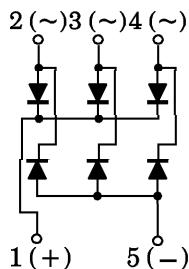
Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	12-46A1A

Weight : 24g

CONNECTION

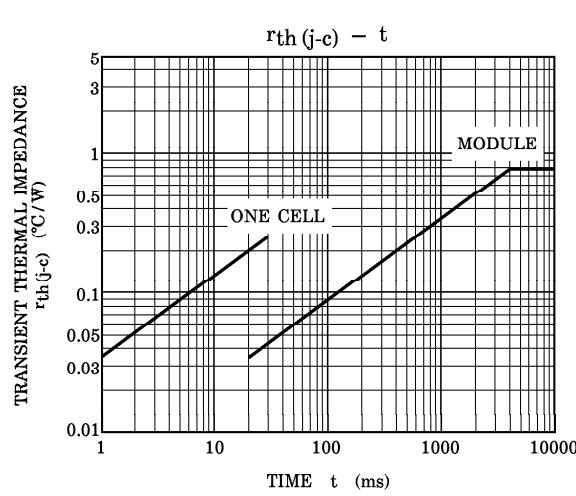
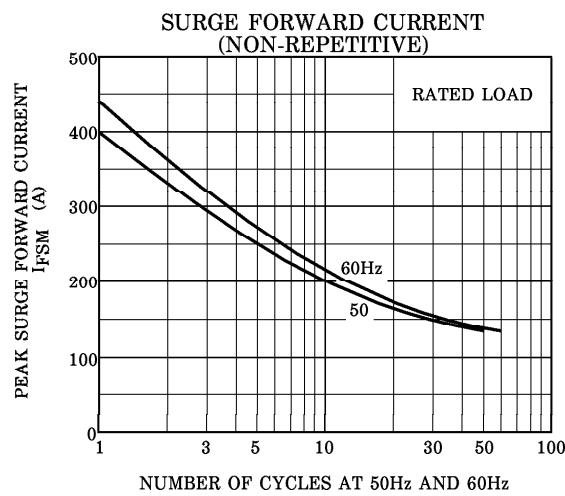
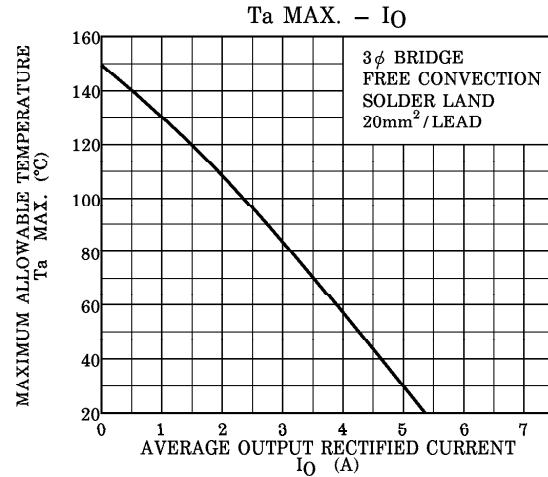
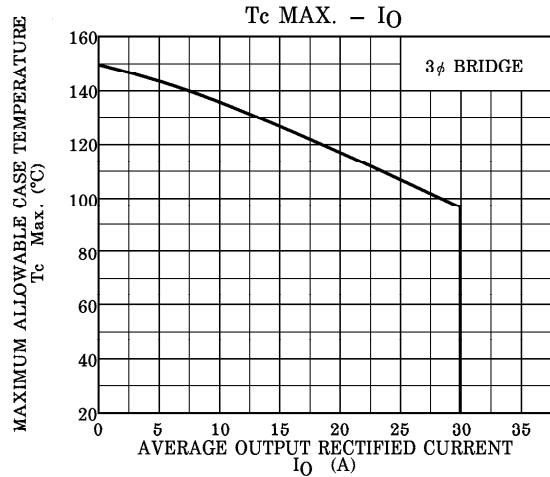
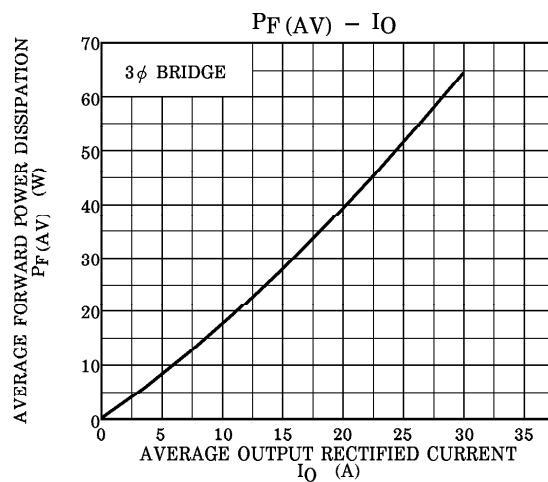
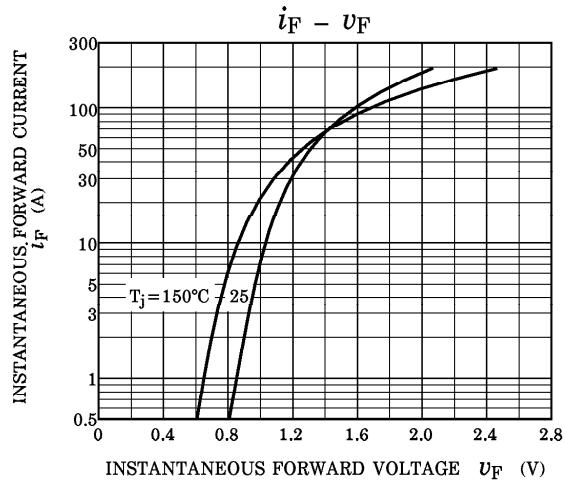
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

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

Note 2 : A value per rectifier unit.

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