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TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

30L6P45

THREE PHASE FULL WAVE BRIDGE APPLICATIONS

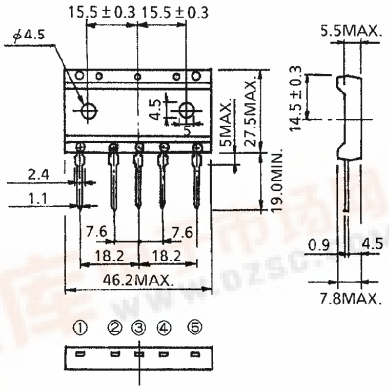
INVERTER EQUIPMENT FOR AC MOTOR CONTROL

CHOPPER EQUIPMENT FOR DC MOTOR CONTROL

DC SUPPLY FOR BATTERY

OTHER POWER CONVERSION EQUIPMENT

Unit in mm

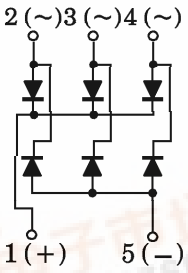


JEDEC	—
EIAJ	—
TOSHIBA	12-46A1A

Weight : 24g

- 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

CONNECTION



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)

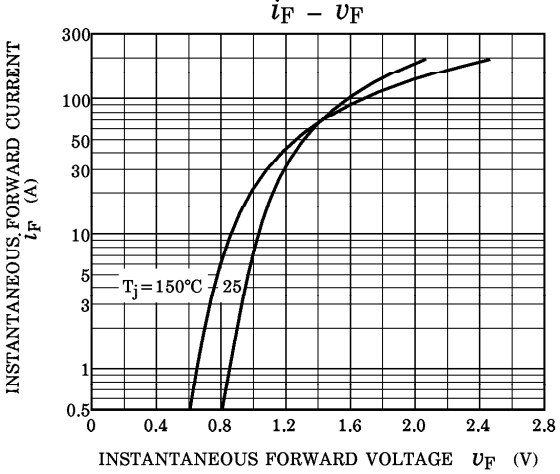
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM} (Note 2)	V_{RRM} = 800V	—	100	μA
Peak Forward Voltage	V_{FM} (Note 2)	I_{FM} = 30A	—	1.2	V
Thermal Resistance	$R_{th\ (j-c)}$	DC (Total) (Junction-Case)	—	0.8	°C / W
	$R_{th\ (j-a)}$	Free Convection (Junction-Ambient)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

Note 2 : A value per rectifier unit.

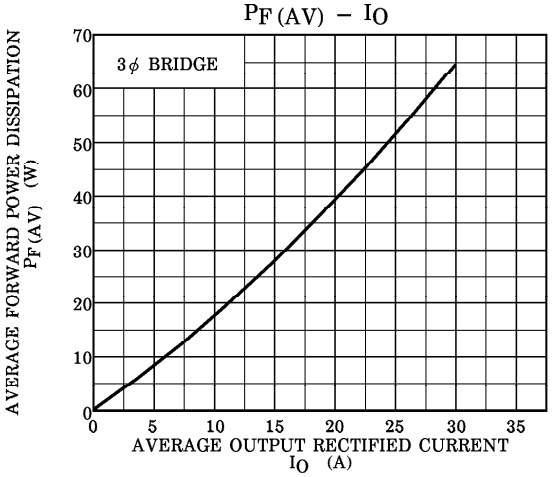
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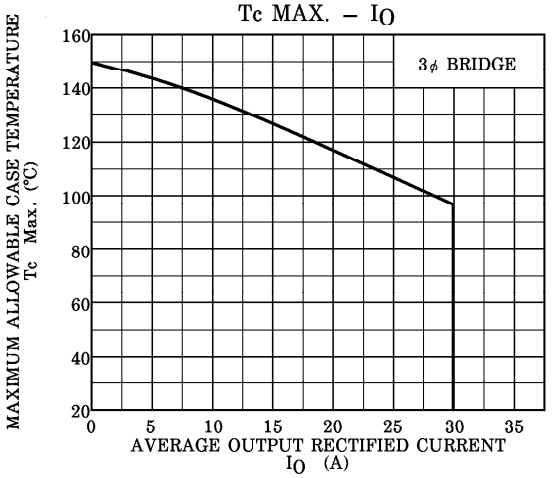
$i_F - v_F$



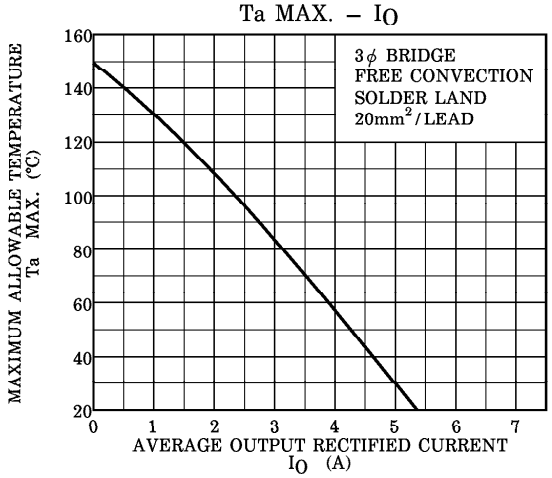
$P_{F(AV)} - I_O$



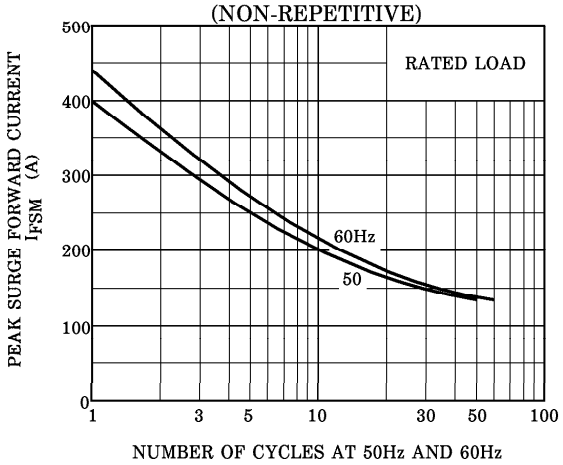
Tc MAX. – I_O



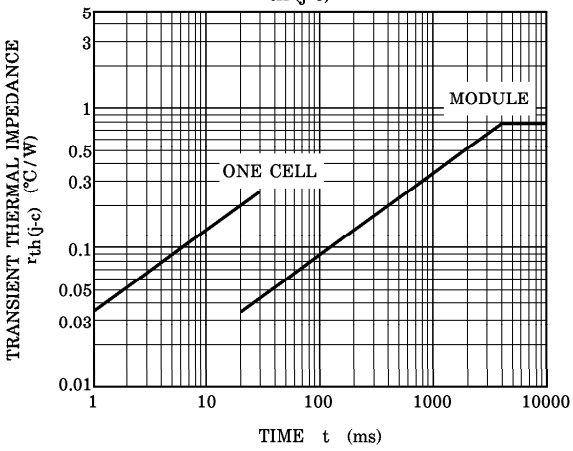
Ta MAX. – I_O



SURGE FORWARD CURRENT
(NON-REPETITIVE)



$r_{th\,(j\text{-}c)} - t$



961001EAA2'

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