TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

20U6P45

THREE PHASE FULL WAVE BRIDGE APPLICATIONS

INVERTER EQUIPMENT FOR AC MOTOR CONTROL

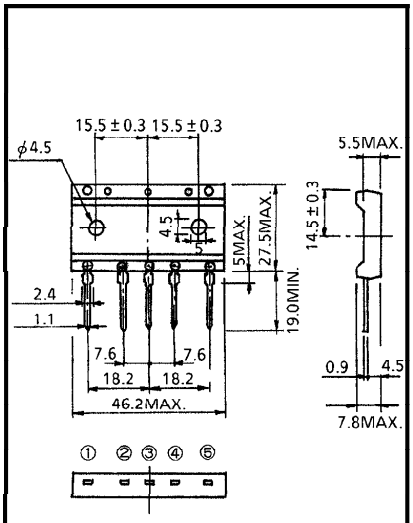
CHOPPER EQUIPMENT FOR DC MOTOR CONTROL

DC SUPPLY FOR BATTERY

OTHER POWER CONVERSION EQUIPMENT

- Repetitive Peak Reverse Voltage : V_{RRM}=1600V
- Average Output Rectified Current : I_O=20A
- Isolation Voltage : V_{Isol}=2500V AC 60s
- Single In-line Package

Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	12-46A1A

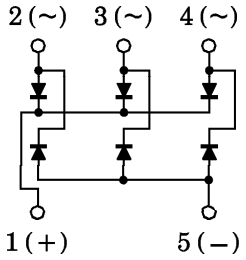
Weight : 24g

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Average Output Rectified Current	I_O	20	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	200 (50Hz)	A
		220 (60Hz)	
Junction Temperature	T_j	−40~150	°C
Storage Temperature	T_{stg}	−40~150	°C
Screw Torque (Note 1)	—	1.5	N·m
Isolation Voltage (AC, t=60s)	V_{Isol}	2500	V

(Note 1) : Recommended torque 1.2N·m

CONNECTION



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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Repetitive Peak Reverse Current	I_{RRM} (Note 2)	V_{RRM} = 1600V	—	—	100	μA
Peak Forward Voltage	V_{FM} (Note 2)	I_{FM} = 20A	—	—	1.2	V
Thermal Resistance	$R_{th\,(j\text{-}c)}$	DC (Total) (Junction-Cace)	—	—	1.0	°C / W
	$R_{th\,(j\text{-}a)}$	Free Convection (Junction-Ambient)	—	—	15	

(Note 2) : A value per rectifier unit.