

TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

20U6P45

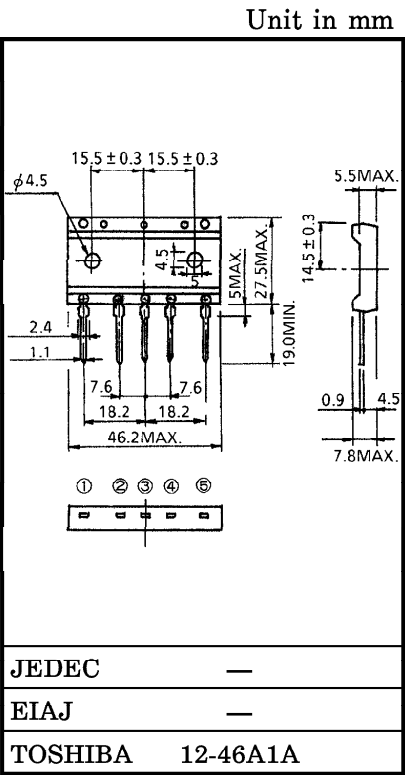
THREE PHASE FULL WAVE BRIDGE APPLICATIONS
INVERTER EQUIPMENT FOR AC MOTOR CONTROL
CHOPPER EQUIPMENT FOR DC MOTOR CONTROL
DC SUPPLY FOR BATTERY
OTHER POWER CONVERSION EQUIPMENT

- 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

MAXIMUM RATINGS (Ta = 25°C)

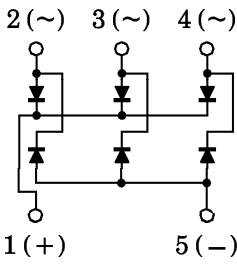
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Average Output Rectified Current	I_O	20	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	200 (50Hz) 220 (60Hz)	A
Junction Temperature	T_j	- 40~150	°C
Storage Temperature	T_{stg}	- 40~150	°C
Screw Torque (Note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

(Note 1) : Recommended torque 1.2N·m



Weight : 24g

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	$R_{th(j-c)}$	DC (Total) (Junction-Case)	—	—	1.0	$^{\circ}C/W$
	$R_{th(j-a)}$	Free Convection (Junction-Ambient)	—	—	15	

(Note 2) : A value per rectifier unit.

