# RECTIFIER STACK (HIGH-SPEED CENTER TAP)

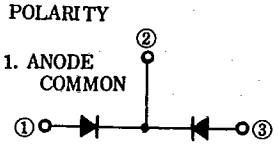
## 2JG2C41 600V 2A

### MAXIMUM RATINGS

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---|---|---|---|
| Repetitive Peak reverse voltage | 2BG2C41, 2BG2Z41 | $V_{RRM}$ | 100 | V |
| | 2DG2C41, 2DG2Z41 | | 200 | |
| | 2GG2C41, 2GG2Z41 | | 400 | |
| | 2JG2C41, 2JG2Z41 | | 600 | |
| Average Output Rectified Current (Fig. 1) | | $I_O$ | 2.0 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | | $I_{FSM}$ | 50(50Hz) | A |
| Junction Temperature | | $T_j$ | −40~125 | ℃ |
| Storage Temperature Range | | $T_{stg}$ | −40~125 | ℃ |

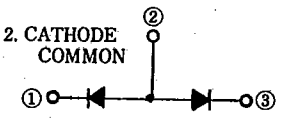
POLARITY

1. ANODE COMMON



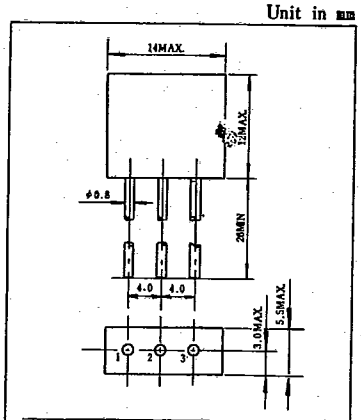

2BG2C41 2DG2C41 2GG2C41 2JG2C41

2. CATHODE COMMON




2BG2Z41 2GG2Z41 2DG2Z41 2JG2Z41

Unit in mm




| TYPE | 2BG2C41 2JG2C41 | 2BG2Z41 2JG2Z41 |
|---|---|---|
| EIAJ | — | — |
| JEDEC | — | — |
| TOSHIBA | 12−14A1A | 12−14A1B |

### ELECTRICAL CHARACTERISTICS

| CHARACTERISTIC | SYMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Peak Forward Voltage | $V_{FM}$ | $I_{FM}$=2A, Ta=25℃ | — | — | 1.3 | V |
| Repetitive Peak Reverce Current | $I_{RRM}$ | $V_{RRM}$=Rated, Ta=125℃ | — | — | 0.5 | mA |
| Reverse Recovery Time | trr | $I_F$=20mA, $I_R$=1mA, Ta=25℃ | — | — | 1.5 | μA |
| Thermal Resistance | $R_{th(j-a)}$ | DC | — | — | 45 | ℃/W |

Notes : 1. Soldering : 6 mm is the minimum to be kept between case and soldering part.
2. Lead Bending : 6 mm is the minimum to be kept from the case when bend the lead wire.

$i_F - v_F$

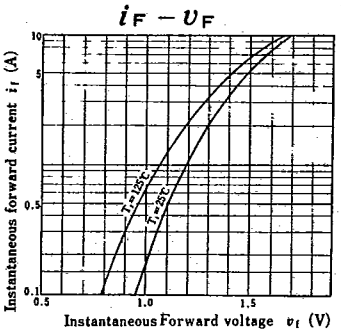
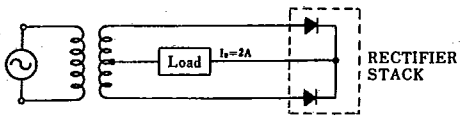



Fig. 1 NORMAL CIRCUIT.



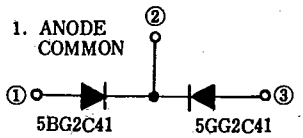

## 5JG2C41 600V 5A

### MAXIMUM RATINGS

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---|---|---|---|
| Repetitive Peak Reverse Voltage | 5BG2C41, 5BG2Z41 | $V_{RRM}$ | 100 | V |
| | 5DG2C41, 5DG2Z41 | | 200 | |
| | 5GG2C41, 5GG2Z41 | | 400 | |
| | 5JG2C41, 5JG2Z41 | | 600 | |
| Average Output Rectified Current (Fig 1) | | $I_O$ | 5 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | | $I_{FSM}$ | 30(50Hz) | A |
| Storage Temperature Range | | $T_{stg}$ | −20~150 | ℃ |
| Junction Temperature | | $T_j$ | −20~150 | ℃ |

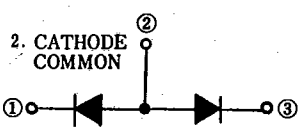
POLARITY

1. ANODE COMMON



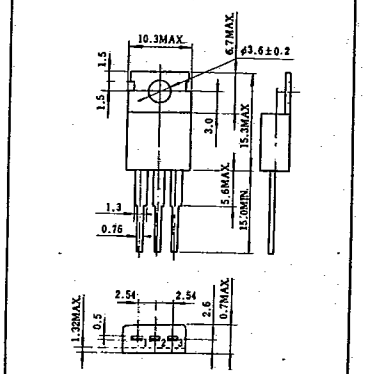

5BG2C41 5DG2C41 5GG2C41 5JG2C41

2. CATHODE COMMON




5BG2Z41 5DG2Z41 5GG2Z41 5JG2Z41

Unit in mm




| JEGEC | TO−220AB |
|---|---|
| EIAJ | |
| TOSHIBA | |

### ELECTRICAL CHARACTERISTICS

| CHARACTERISTIC | SYMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Peak Forward Voltage | $V_{FM}$ | $I_{FM}$=5A, Ta=25℃ | — | — | 1.6 | V |
| Repetitive Peak Reverse Current | $I_{RRM}$ | $V_{RRM}$=Rated, Ta=150℃ | — | — | 6.0 | mA |
| Reverse Recovery Time | trr(1) | $I_F$=20mA, $I_R$=1mA | — | — | 1.5 | μs |
| | trr(2) | $I_F$=1.0A, $V_R$=30V, Ta=25℃ | — | — | 200 | ns |
| Thermal Resistance | $R_{th(j-c)}$ | DC | — | — | 5 | ℃/W |

Fig. 1 NORMAL CIRCUIT.