

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

3GH45

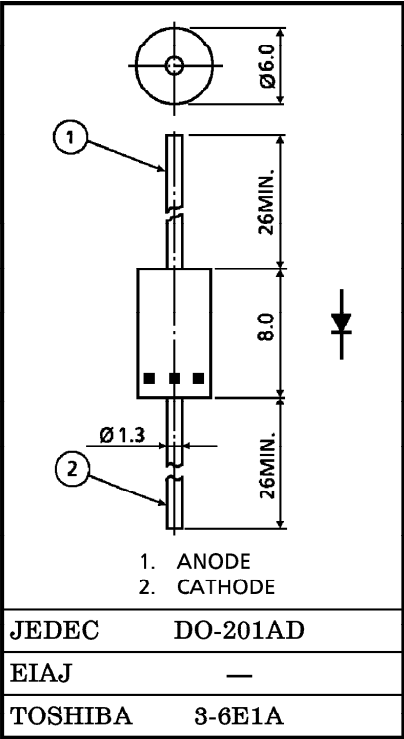
SWITCHING TYPE POWER SUPPLY APPLICATIONS

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=400V$
- Average Forward Current :  $I_F(AV)=3.0A$
- Very Fast Reverse-Recovery Time :  $t_{rr}=200ns(Max.)$

MAXIMUM RATINGS

| CHARACTERISTIC                                           | SYMBOL    | RATING                 | UNIT        |
|----------------------------------------------------------|-----------|------------------------|-------------|
| Repetitive Peak Reverse Voltage                          | $V_{RRM}$ | 400                    | V           |
| Average Forward Current<br>( $T_a=25^{\circ}C$ )         | $I_F(AV)$ | 3.0                    | A           |
| Peak One Cycle Surge Forward<br>Current (Non-Repetitive) | $I_{FSM}$ | 70 (50Hz)<br>77 (60Hz) | A           |
| Junction Temperature                                     | $T_j$     | $-40\sim150$           | $^{\circ}C$ |
| Storage Temperature Range                                | $T_{stg}$ | $-40\sim150$           | $^{\circ}C$ |

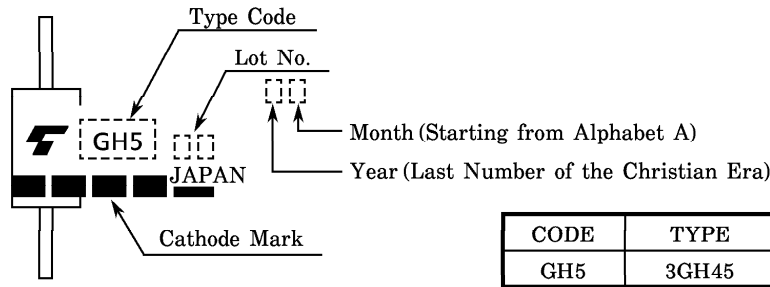


Weight : 1.18g

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

| CHARACTERISTIC                  | SYMBOL        | TEST CONDITION             | MIN. | TYP. | MAX. | UNIT          |
|---------------------------------|---------------|----------------------------|------|------|------|---------------|
| Peak Forward Voltage            | $V_{FM}$      | $I_{FM}=3.0A$              | —    | —    | 1.1  | V             |
| Repetitive Peak Reverse Current | $I_{RRM}$     | $V_{RRM}=400V$             | —    | —    | 100  | $\mu A$       |
| Reverse Recovery Time           | $t_{rr}$      | $I_F=1A, di/dt=-30A/\mu s$ | —    | —    | 200  | ns            |
| Forward Recovery Time           | $t_{fr}$      | $I_F=1.0A$                 | —    | —    | 400  | ns            |
| Thermal Resistance              | $R_{th(j-e)}$ | Junction to Ambient        | —    | —    | 38   | $^{\circ}C/W$ |

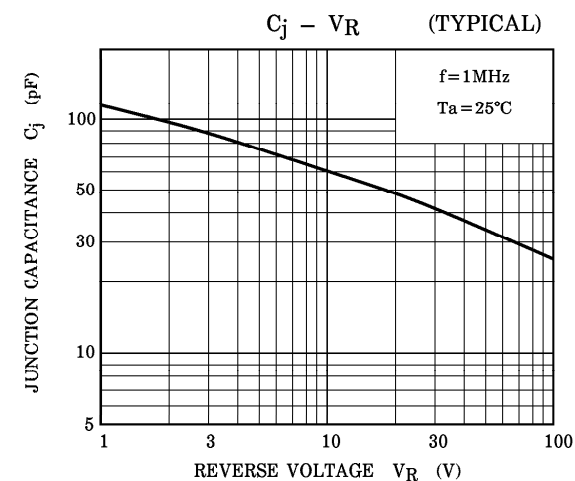
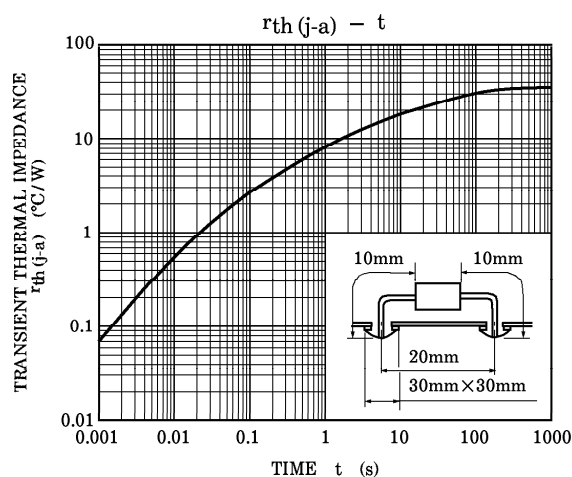
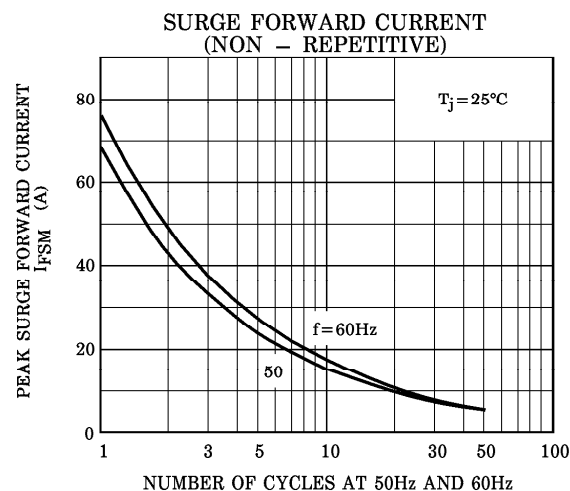
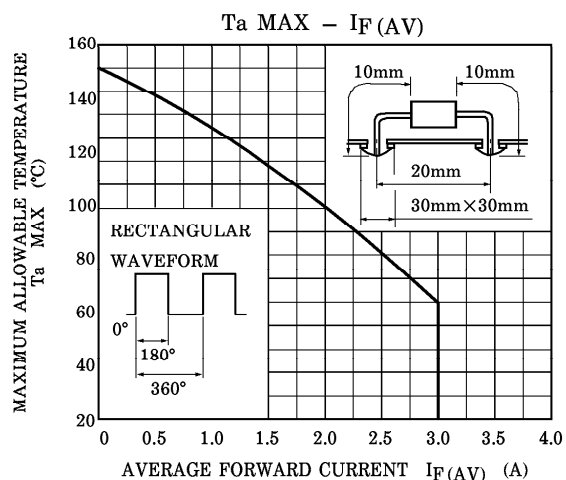
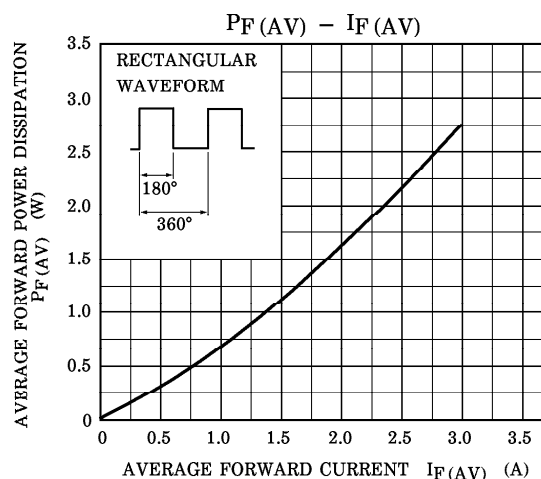
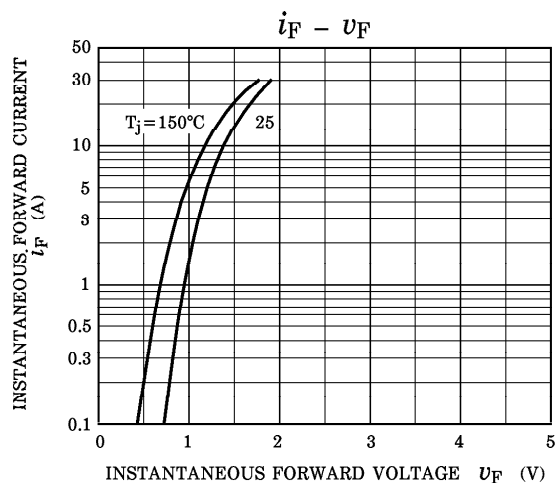
Marking



Color : Silver

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