

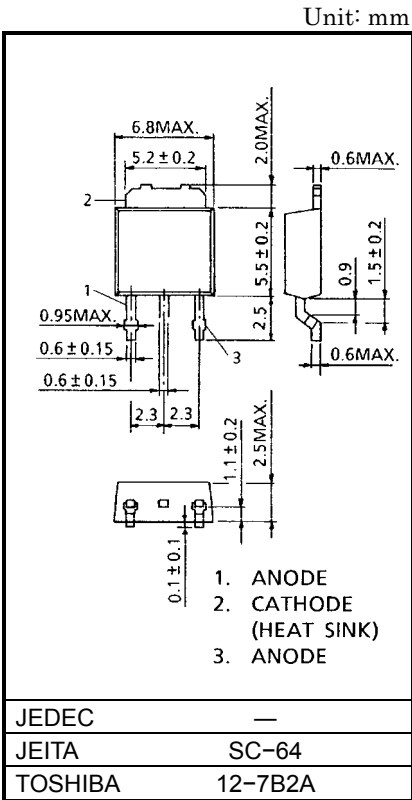
U3FWK42

HIGH SPEED RECTIFIER APPLICATIONS

- Peak Forward Voltage :  $V_{FM} = 0.40\text{ V (Max)}$
- Repetitive Peak Reverse Voltage :  $V_{RRM} = 30\text{ V}$
- Average Forward Current :  $I_F (AV) = 3\text{ A}$

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC                                        | SYMBOL     | RATING    | UNIT |
|-------------------------------------------------------|------------|-----------|------|
| Repetitive Peak Reverse Voltage                       | $V_{RRM}$  | 30        | V    |
| Average Forward Current                               | $I_F (AV)$ | 3         | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | $I_{FSM}$  | 75 (50Hz) | A    |
| Junction Temperature                                  | $T_j$      | -40~125   | °C   |
| Storage Temperature Range                             | $T_{stg}$  | -40~125   | °C   |

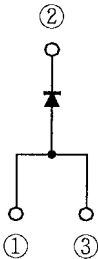


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

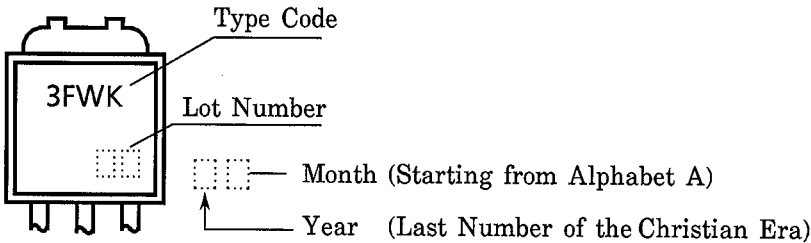
Weight: 0.3g

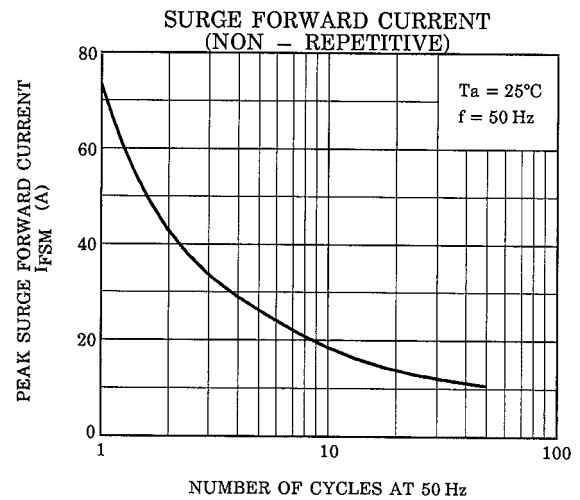
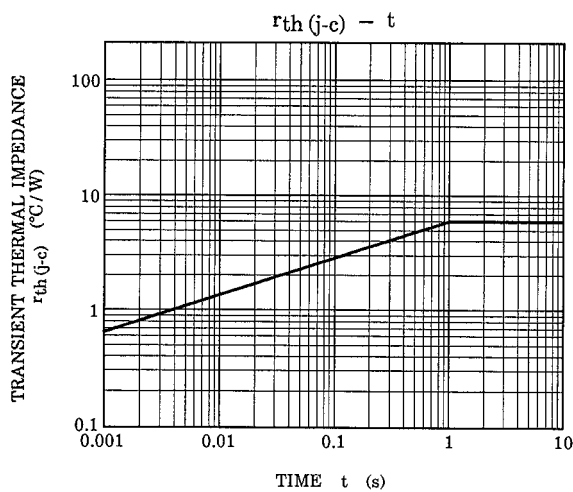
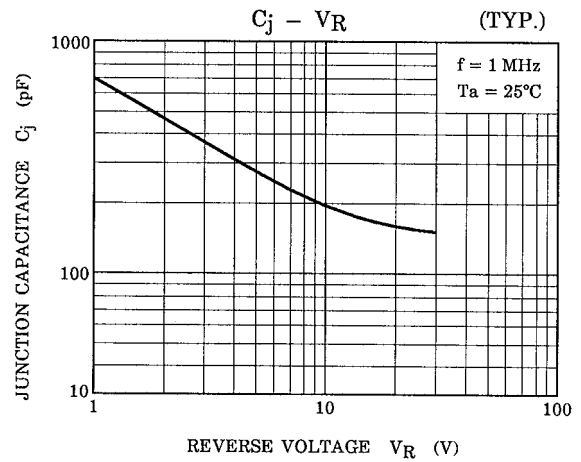
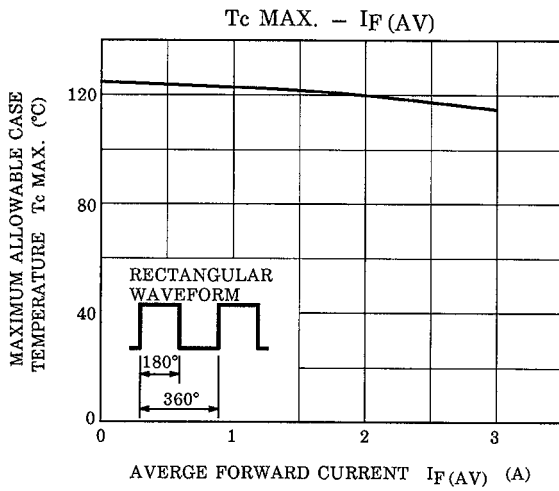
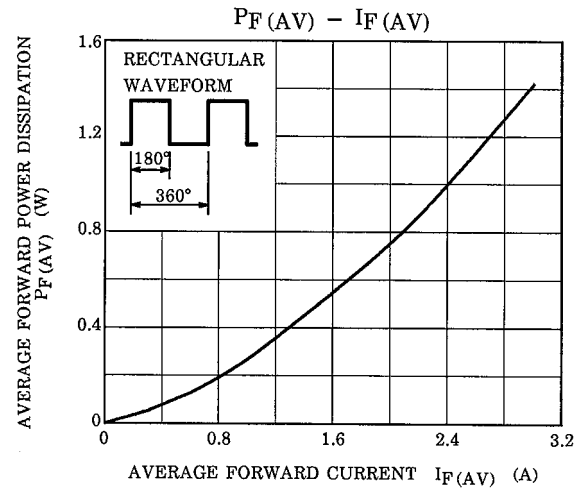
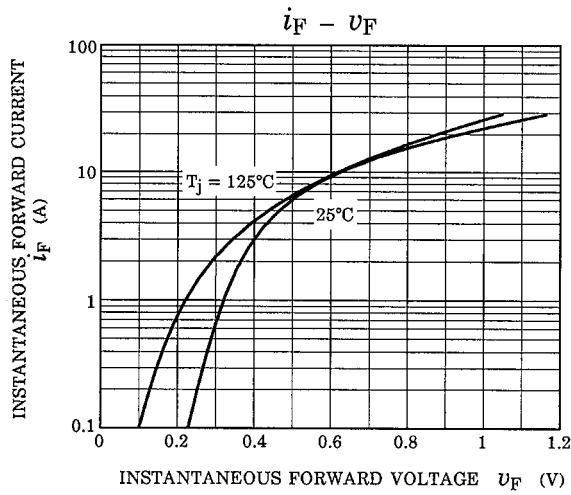
| CHARACTERISTIC                        | SYMBOL         | TEST CONDITION                        | TYP. | MAX  | UNIT   |
|---------------------------------------|----------------|---------------------------------------|------|------|--------|
| Peak Forward Voltage                  | $V_{FM}$       | $I_{FM} = 3.0\text{ A}$               | —    | 0.40 | V      |
| Repetitive Peak Reverse Current       | $I_{RRM}$      | $V_{RRM} = 30\text{ V}$               | —    | 0.5  | mA     |
| Junction Capacitance                  | $C_j$          | $V_R = 10\text{ V}, f = 1\text{ MHz}$ | 200  | —    | pF     |
| Thermal Resistance (Junction to Case) | $R_{th (j-c)}$ | DC Total                              | —    | 6.0  | °C / W |

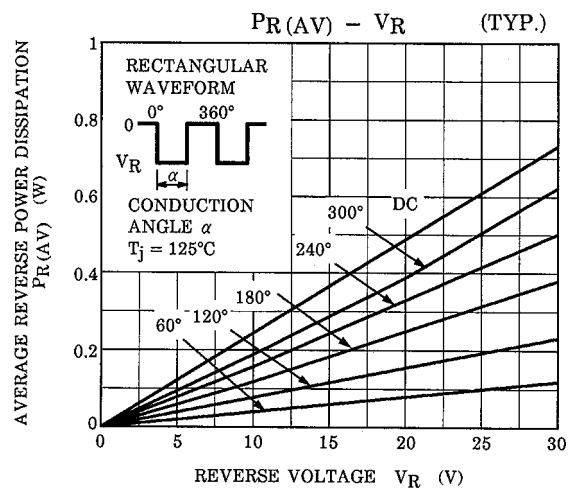
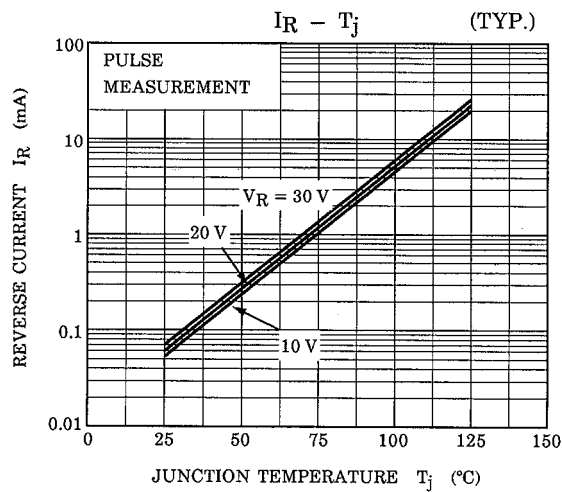
POLARITY



MARKING







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