

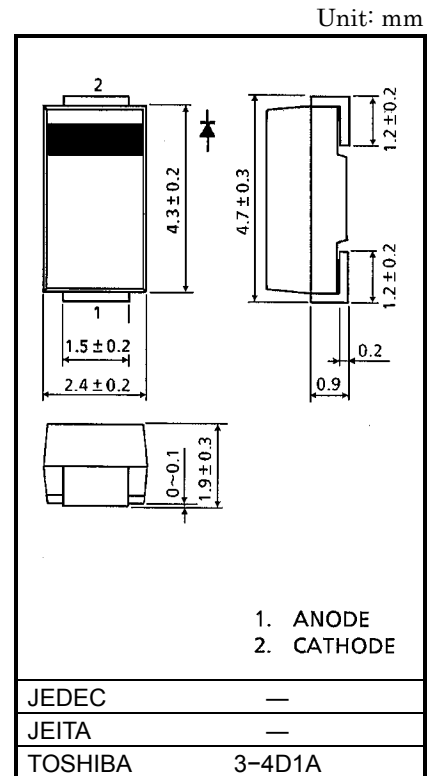
## U1DL44A

### SWITCHING MODE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 200V$
- Average Forward Current :  $I_F (AV) = 1.0A$
- Very Fast Reverse-Recovery Time :  $t_{rr} = 35ns (Max)$
- Low Forward Voltage :  $V_{FM} = 0.98V$
- Available to Reduce Switching Losses and Output Noise
- Surface Mounting Plastic Mold Package

### MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

| CHARACTERISTIC                                        | SYMBOL     | RATING                 | UNIT       |
|-------------------------------------------------------|------------|------------------------|------------|
| Repetitive Peak Reverse Voltage                       | $V_{RRM}$  | 200                    | V          |
| Average Forward Current                               | $I_F (AV)$ | 1.0                    | A          |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | $I_{FSM}$  | 10 (50Hz)<br>11 (60Hz) | A          |
| Junction Temperature                                  | $T_j$      | -40~150                | $^\circ C$ |
| Storage Temperature                                   | $T_{stg}$  | -40~150                | $^\circ C$ |

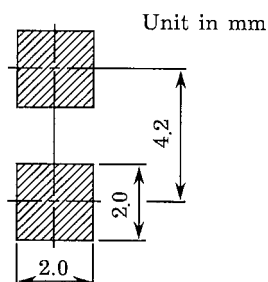


Weight: 0.06g

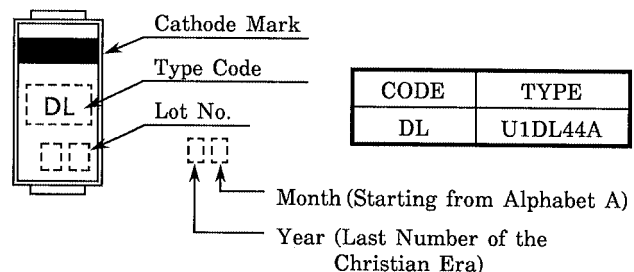
### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

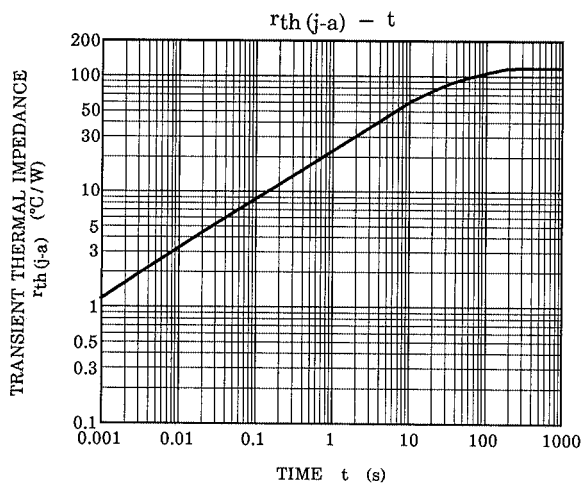
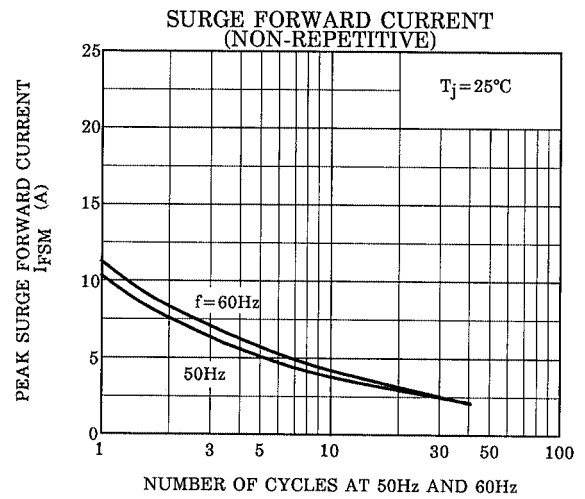
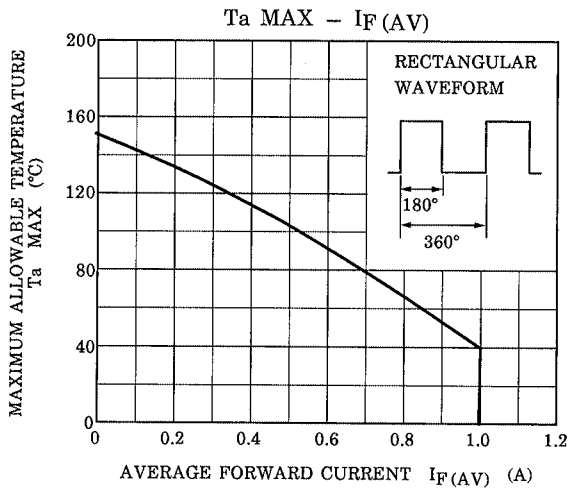
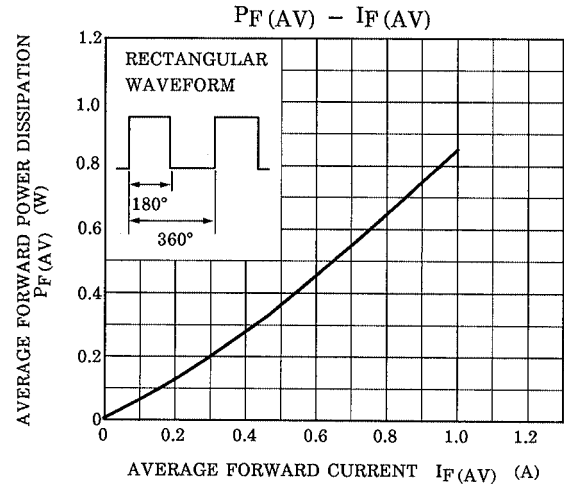
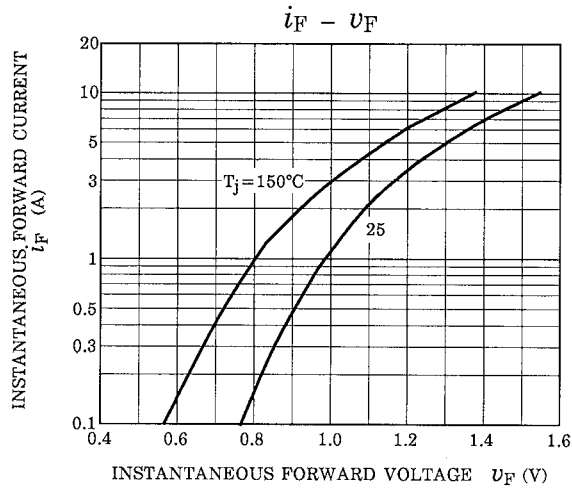
| CHARACTERISTIC                  | SYMBOL    | TEST CONDITION                     | MIN | TYP. | MAX  | UNIT    |
|---------------------------------|-----------|------------------------------------|-----|------|------|---------|
| Peak Forward Voltage            | $V_{FM}$  | $I_{FM} = 1.0A$                    | —   | —    | 0.98 | V       |
| Repetitive Peak Reverse Current | $I_{RRM}$ | $V_{RRM} = 200V$                   | —   | —    | 10   | $\mu A$ |
| Reverse Recovery Time           | $t_{rr}$  | $I_F = 1A, di / dt = -30A / \mu s$ | —   | —    | 35   | ns      |
| Forward Recovery Time           | $t_{fr}$  | $I_F = 1.0A$                       | —   | —    | 100  | ns      |

### STANDARD SOLDERING PAD



### MARKING





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