



Micro Commercial Components

Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

## RB425D

### Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

### 0.1 Amp Schottky Barrier Rectifier 40 Volts

### Maximum Ratings

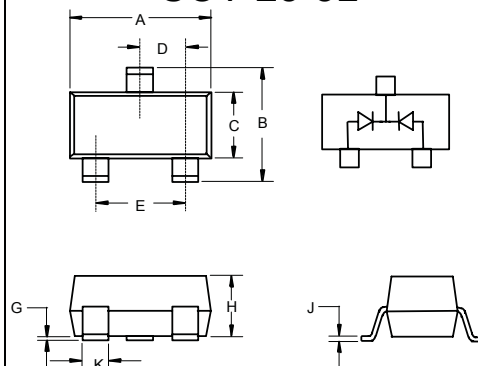
| Parameter                  | Symbol    | Value      | Unit |
|----------------------------|-----------|------------|------|
| Peak Reverse Voltage       | $V_{RM}$  | 40         | V    |
| DC Reverse Voltage         | $V_R$     | 40         | V    |
| Mean Rectifying Current    | $I_O$     | 100        | mA   |
| Peak Forward Surge Current | $I_{FSM}$ | 1          | A    |
| Junction Temperature       | $T_J$     | 125        | °C   |
| Storage Temperature        | $T_{STG}$ | -40 to 125 | °C   |

### Electrical Characteristics @ 25°C Unless Otherwise Specified

| Parameter                                                  | Symbol | Min. | Typ. | Max.         | Unit |
|------------------------------------------------------------|--------|------|------|--------------|------|
| Forward Voltage<br>@ $I_F=100mA$<br>@ $I_F=10mA$           | $V_F$  | ---  | ---  | 0.55<br>0.34 | V    |
| Reverse Current<br>@ $V_R=10V$                             | $I_R$  | ---  | ---  | 30           | uA   |
| Capacitance<br>Between Terminals<br>@ $V_R=10V$ , $f=1MHz$ | $C_T$  | ---  | 6    | ---          | pF   |

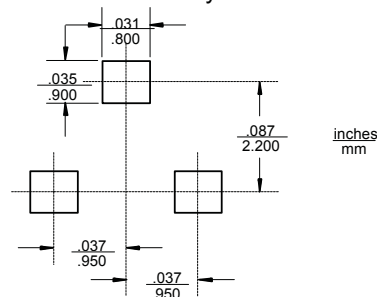
Marking: D3L

### SOT-23-3L



| DIM | INCHES |       | MM   |      | NOTE |
|-----|--------|-------|------|------|------|
|     | MIN    | MAX   | MIN  | MAX  |      |
| A   | .113   | .117  | 2.87 | 2.97 |      |
| B   | .108   | .112  | 2.75 | 2.85 |      |
| C   | .061   | .065  | 1.55 | 1.65 |      |
| D   | .036   | .038  | .925 | .975 |      |
| E   | .073   | .077  | 1.85 | 1.95 |      |
| G   | .0016  | .0039 | .04  | .100 |      |
| H   | .044   | .049  | 1.12 | 1.25 |      |
| J   | .006   | .007  | .14  | .17  |      |
| K   | .013   | .015  | .34  | .37  |      |

### Suggested Solder Pad Layout





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