



RB520LP-30

DFN 1.0X0.6-2L Plastic-Encapsulate Schottky Barrier Diode

FEATURES

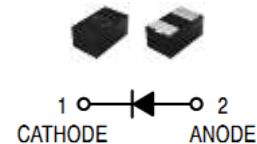
- Ultra Small power mold type. (DFN1006)
- Low I_R
- High reliability
- Low current rectification

MECHANICAL DATA

- Case: DFN1006-2
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminal Connections: Cathode Dot
- Terminals: Finish - NiPdAu annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208
- Weight: 0.001 grams (approximate)

MARKETS

- Mobile Handsets
- MP3 Players
- Digital Camera and Camcorders
- Notebook PCs & PDAs
- GPS



Notes:

1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
2. See <http://www.goodark.com> for more information about Good-Ark's definitions of Halogen and Antimony-free, "Green" and Lead-free.
3. For packaging details, go to our website at <http://www.goodark.com>.

Absolute Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise specified)

| Symbol | Parameter | Value | Unit |
|-----------|--|-------------|------------------|
| V_R | Reverse Voltage (DC) | 30 | V |
| I_O | Average Rectified Forward Current | 100 | mA |
| I_{FSM} | Forward Current Surge Peak (60Hz/1cyc) | 500 | mA |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{STG} | Storage Temperature | -40 to +150 | $^\circ\text{C}$ |

Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-------------------------|--------|---------------------|-----|-----|------|---------------|
| Forward Voltage | V_F | $I_F = 10\text{mA}$ | - | - | 0.45 | V |
| Reverse Leakage Current | I_R | $V_R = 10\text{V}$ | | | 0.5 | μA |

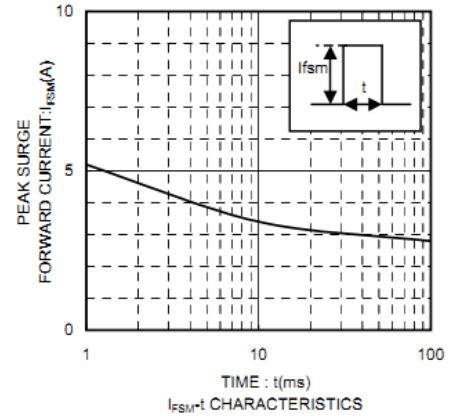
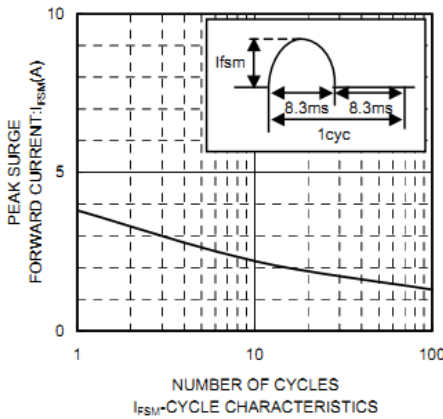
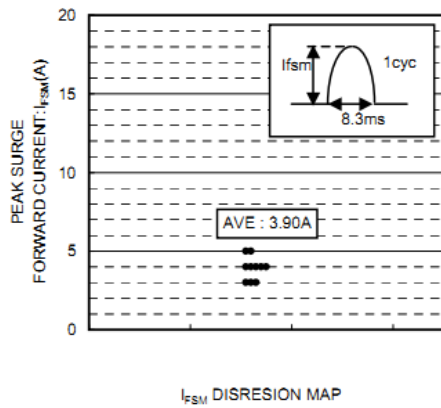
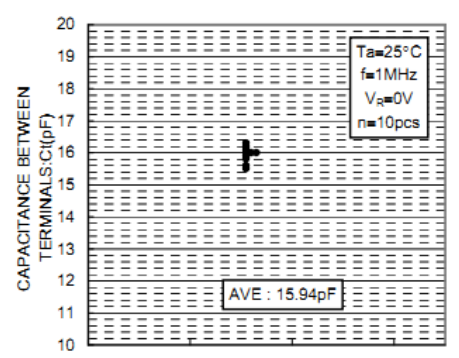
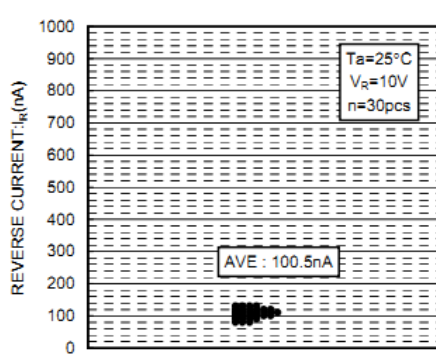
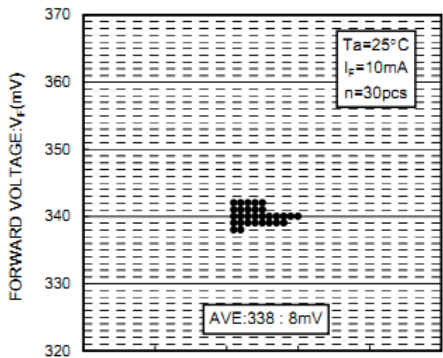
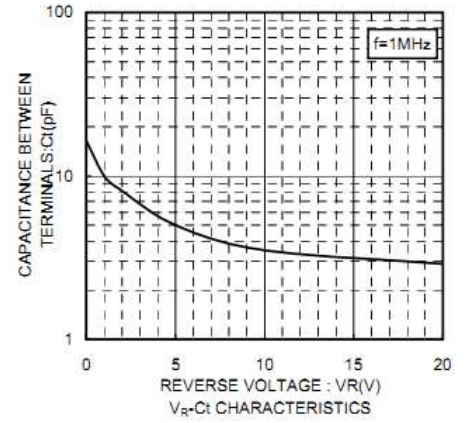
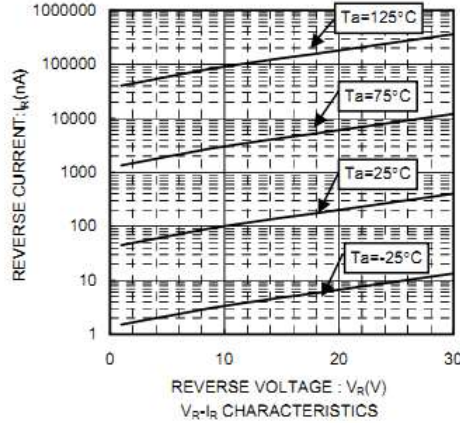
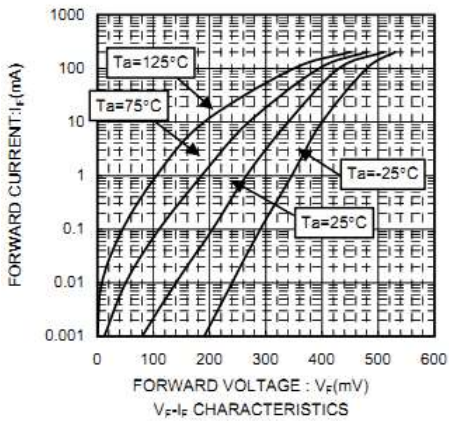




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Electrical characteristic curves (Ta=25°C unless otherwise specified)

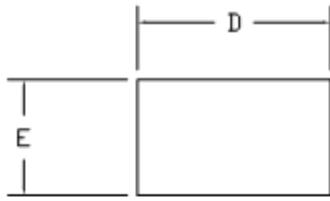




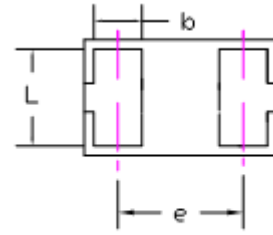
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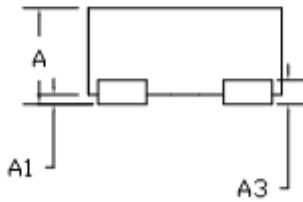
DFN 1.0X0.6-2L Package Outline Dimensions



TOP VIEW



BOTTOM VIEW

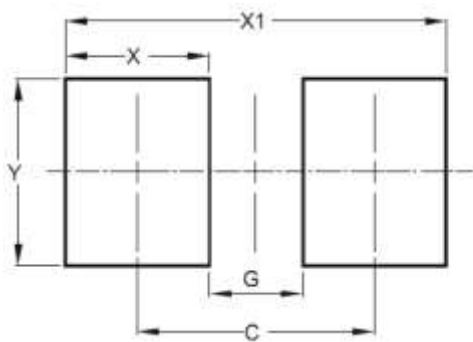


SIDE VIEW

| COMMON DIMENSIONS(MM) | | | |
|-----------------------|-----------------|------|------|
| PKG. REF. | X1-EXTREME THIN | | |
| | MIN. | NOM. | MAX. |
| A | >0.4 | - | 0.50 |
| A1 | 0.00 | - | 0.05 |
| A3 | 0.125REF. | | |
| D | 0.95 | 1.00 | 1.05 |
| E | 0.55 | 0.60 | 0.65 |
| b | 0.20 | 0.25 | 0.30 |
| L | 0.45 | 0.50 | 0.55 |
| | - | - | - |
| | - | - | - |
| e | 0.65 BSC | | |

Lead finish: NiPdAu

DFN 1.0X0.6-2L Suggested Pad Layout



| Dimensions | Value (in mm) |
|------------|---------------|
| C | 0.70 |
| G | 0.30 |
| X | 0.40 |
| X1 | 1.10 |
| Y | 0.70 |

