



UZ5C056

Preliminary

DIODE

PROTECTION IN PORTABLE ELECTRONICS APPLICATIONS

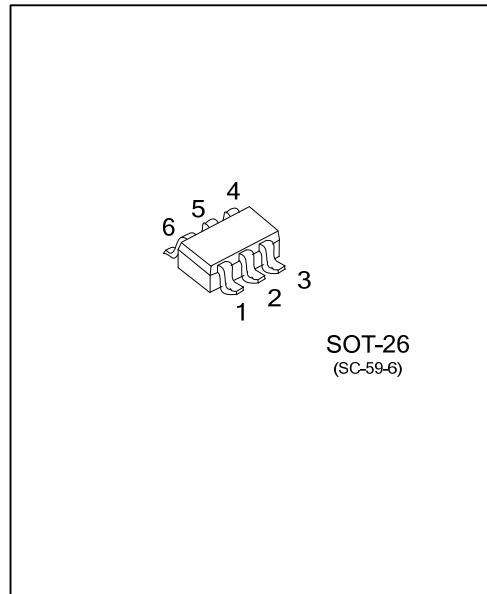
DESCRIPTION

The UTC **UZ5C056** is a protection in portable electronics applications, it uses UTC's advanced technology to provide customers low operating current, low leakage current and low clamping voltage.

The UTC **UZ5C056** is suitable for PDA, Cell phone, Cordless phones and Notebooks, etc.

FEATURES

- * Low operating current
- * Low leakage current
- * Low clamping voltage.

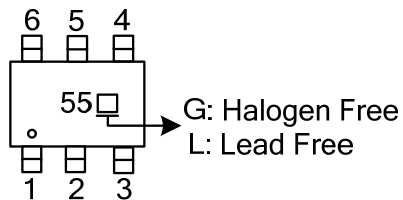


ORDERING INFORMATION

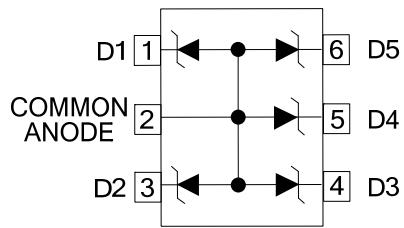
| Ordering Number | | Package | Packing |
|-----------------|----------------|---------|-----------|
| Lead Free | Halogen Free | | |
| UZ5C056L-AG6-R | UZ5C056G-AG6-R | SOT-26 | Tape Reel |

| | | |
|-------------------|--|--|
| UZ5C05L-AG6-R | (1) Packing Type (2) Package Type (3) Halogen Free | (1) R: Tape Reel (2) AG6: SOT-26 (3) G: Halogen Free, L: Lead Free |
|-------------------|--|--|

MARKING



■ **PIN CONFIGURATION**



■ **PIN DESCRIPTION**

| PIN NO. | PIN NAME | DESCRIPTION |
|---------|--------------|--------------------------|
| 1 | D1 | Terminal of Cathode 1 |
| 2 | COMMON ANODE | Terminal of Common Anode |
| 3 | D2 | Terminal of Cathode 2 |
| 4 | D3 | Terminal of Cathode 3 |
| 5 | D4 | Terminal of Cathode 4 |
| 6 | D5 | Terminal of Cathode 5 |

■ **ABSOLUTE MAXIMUM RATING** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

| PARAMETER | SYMBOL | RATINGS | UNIT |
|--|-----------|---------|--------------------|
| Peak Pulse Power ($t_P=8/20\mu\text{s}$) | P_{PK} | 150 | W |
| Peak Pulse Current ($t_P=8/20\mu\text{s}$) | I_{PP} | 10 | A |
| Junction Temperature | T_J | -55~150 | $^{\circ}\text{C}$ |
| Storage Temperature | T_{STG} | -55~150 | $^{\circ}\text{C}$ |

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|---------------------------|-----------|---|-----|-----|------|---------------|
| Reverse Stand-Off Voltage | V_{RWM} | | | | 5 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_T=1\text{mA}$ | 6.3 | | | V |
| Reverse Leakage Current | I_R | $V_{RWM}=5\text{V}$ | | | 1 | μA |
| Clamping Voltage | V_C | $I_{PP}=10\text{A}$, $t_P=8/20\mu\text{s}$ | | | 14.5 | V |
| Junction Capacitance | C_J | $V_R=0\text{V}$, $f=1\text{MHz}$ Between I/O Pins and GND | | | 100 | pF |

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