

SCHOTTKY BARRIER DUAL DIODE

DESCRIPTION:

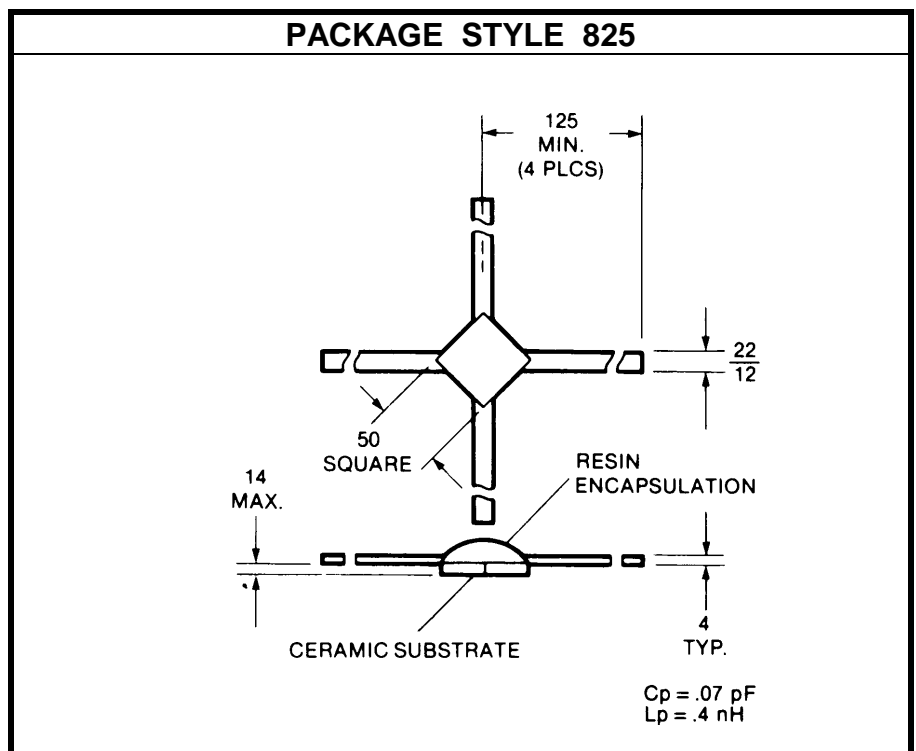
The **5082-2279** is a Low Barrier Schottky Barrier Dual Diode Designed for Single Balanced Mixer, Phase Detector and Modulator Applications up to 12 GHz.

FEATURES INCLUDE:

- Low Barrier
- Excellent Matching
- Small size

MAXIMUM RATINGS

| | |
|--------------|--|
| I_F | 100 mA |
| P_{DISS} | 75 mW @ $T_C = 25^\circ\text{C}$ per Junction |
| T_J | -65°C to $+175^\circ\text{C}$ |
| T_{STG} | -65°C to $+175^\circ\text{C}$ |
| T_{SOLDER} | $+235^\circ\text{C}$ for 10 seconds |



CHARACTERISTICS $T_C = 25^\circ\text{C}$

| SYMBOL | TEST CONDITIONS | | | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|---------------|------------------------|----------|-----------------------|---------|---------|---------|----------|
| V_F | $I_F = 1 \text{ mA}$ | | | 260 | 300 | 340 | mV |
| $V_{F\Delta}$ | $I_F = 1 \text{ mA}$ | | | | | 20 | mV |
| V_{BR} | $I_R = 10 \mu\text{A}$ | | | 2 | | | V |
| C_T | $V_R = 0 \text{ V}$ | Diagonal | $f = 1.0 \text{ MHz}$ | | | 0.25 | pF |
| C_T | $V_R = 0 \text{ V}$ | Adjacent | $f = 1.0 \text{ MHz}$ | | | 0.34 | pF |
| $C_{T\Delta}$ | $V_R = 0 \text{ V}$ | | | | | 0.05 | pF |
| R_D | $I_F = 5.0 \text{ mA}$ | | | | | 16 | Ω |