

A suffix of "-C" specifies halogen & lead-free

FEATURES

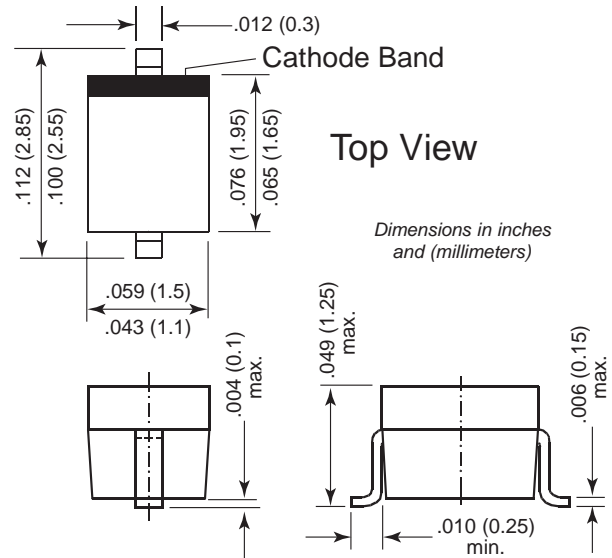
- Schottky Barrier Diodes Packaged in SOD-323
- Low Reverse Leakage
- Very Low Capacitance
- Extremely Low Minority Carrier lifetime - 15 ps (Type)
- RoHS Compliant Product

MECHANICAL DATA

Case: Molded plastic
Epoxy: UL 94V-0 rate flame retardant
Lead: Solderable per MIL-STD-202, method 208 guaranteed
Polarity: Color band denotes cathode end
Mounting position: Any
Marking Code : 4T



SOD-323(SC-76)



MAXIMUM RATINGS (T_J = 25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|---|-----------------------------------|-------------|-------------|
| Reverse Voltage | V _R | 30 | V |
| Total Device Dissipation FR-5 Board ⁽¹⁾ , TA=25°C Derate above 25°C | P _d | 200 1.57 | mW mW/°C |
| Thermal Resistance Junction to Ambient | R _{θJA} | 635 | °C/W |
| Junction and Storage Temperature Range | T _J , T _{stg} | -55 to +150 | °C |

Note: FR-5 Minimum Pad

ELECTRICAL CHARACTERISTICS

| Parameter | Symbol | Min | Typ | Max | Unit |
|--|--------------------|-----|--------------|--------------|------|
| Reverse Breakdown Voltage I _R =10uA | V _{(BR)R} | 30 | - | - | V |
| Maximum Instantaneous Forward Voltage I _F =1.0mA I _F =10mA | V _F | - | 0.38 0.52 | 0.45 0.60 | V |
| Reverse Leakage V _R =25V | I _R | - | 13 | 200 | nA |
| Diode Capacitance V _R =15V, f=1.0MHz | C _T | - | 0.9 | 1.5 | pF |

Electrical Characteristics Curves (Ta=25°C unless specified otherwise)

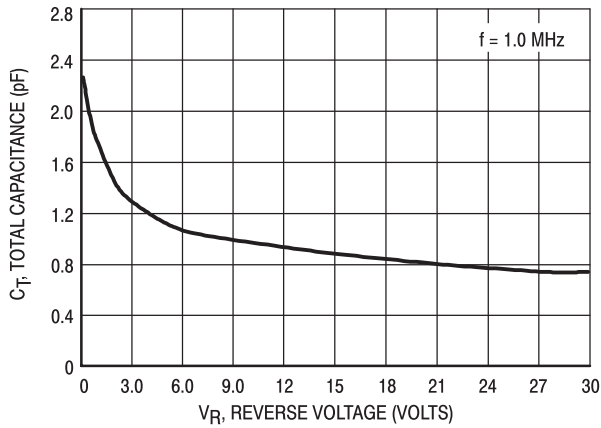


Figure 1. Total Capacitance

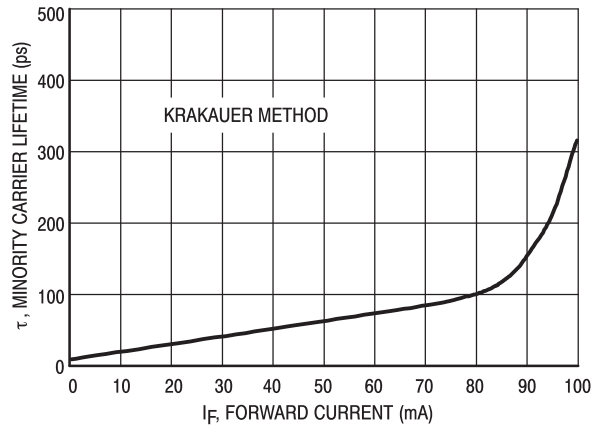


Figure 2. Minority Carrier Lifetime

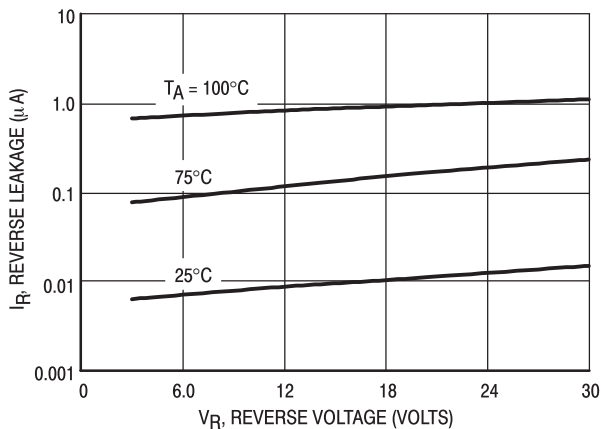


Figure 3. Reverse Leakage

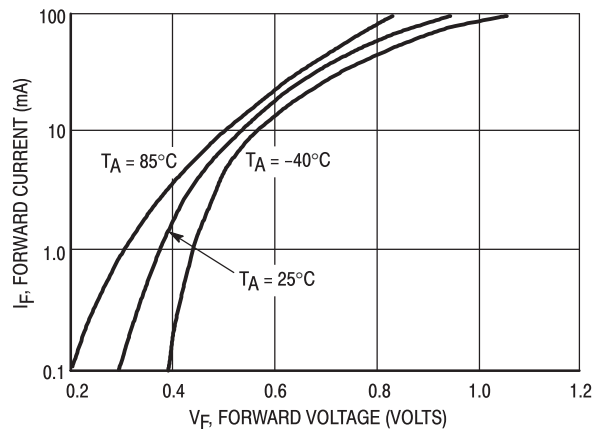


Figure 4. Forward Voltage

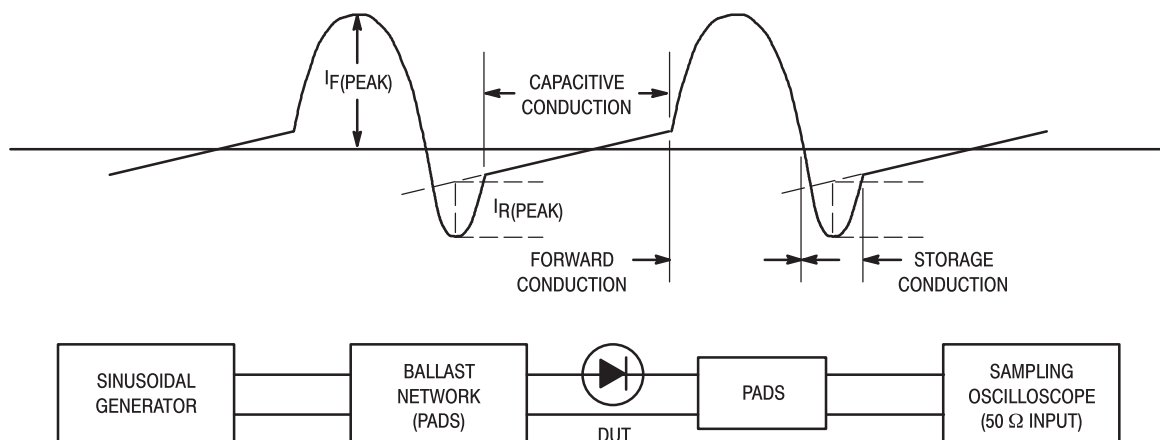


Figure 5. Krakauer Method of Measuring Lifetime