

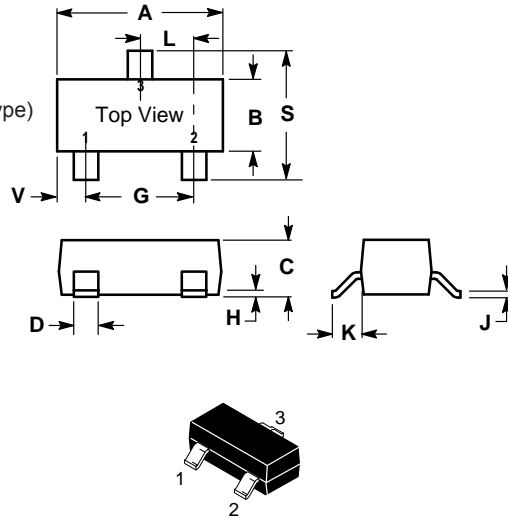
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Schottky Barrier Diodes Packaged in SOT-23
- 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



SOT-23		
Dim	Min	Max
A	2.800	3.040
B	1.200	1.400
C	0.890	1.110
D	0.370	0.500
G	1.780	2.040
H	0.013	0.100
J	0.085	0.177
K	0.450	0.600
L	0.890	1.020
S	2.100	2.500
V	0.450	0.600
All Dimension in mm		

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⁾ , T _A =25°C Derate above 25°C	P _d	200 2.0	mW mW/°C
Operation Junction Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

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)

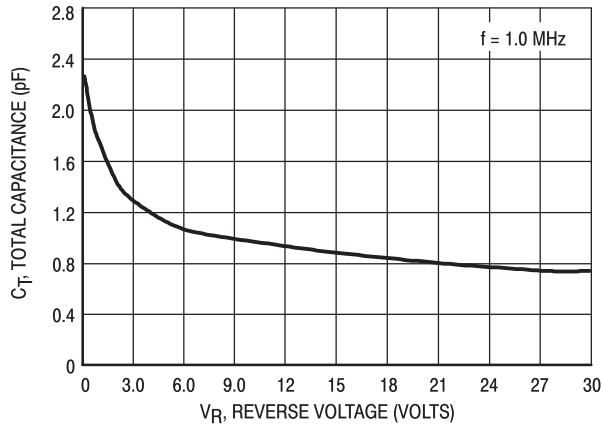


Figure 1. Total Capacitance

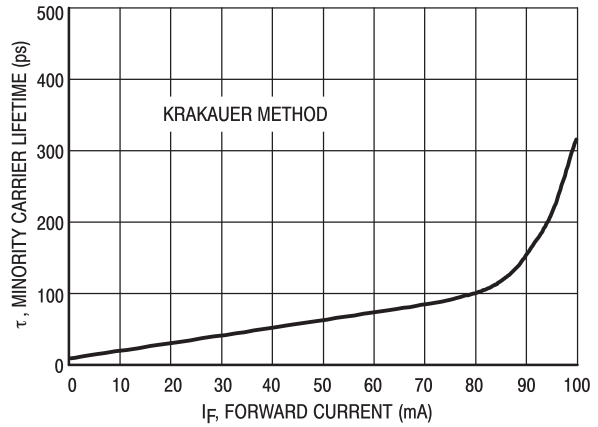


Figure 2. Minority Carrier Lifetime

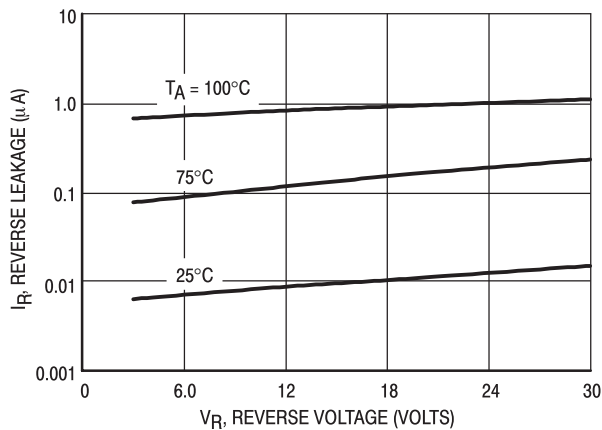


Figure 3. Reverse Leakage

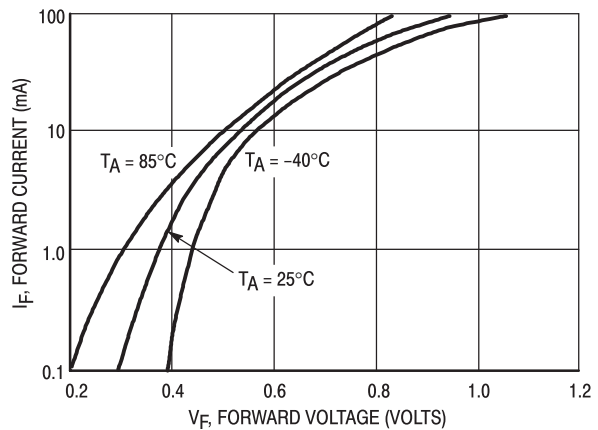


Figure 4. Forward Voltage

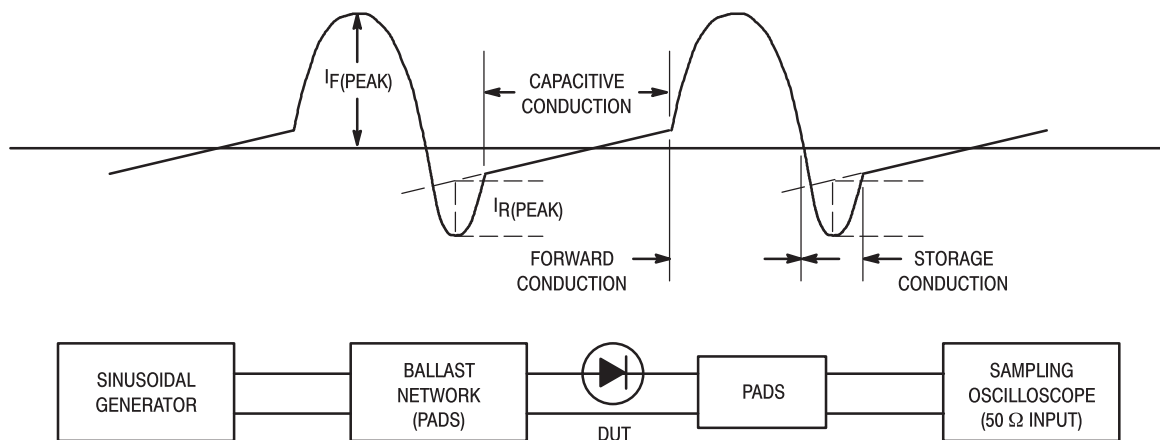


Figure 5. Krakauer Method of Measuring Lifetime