

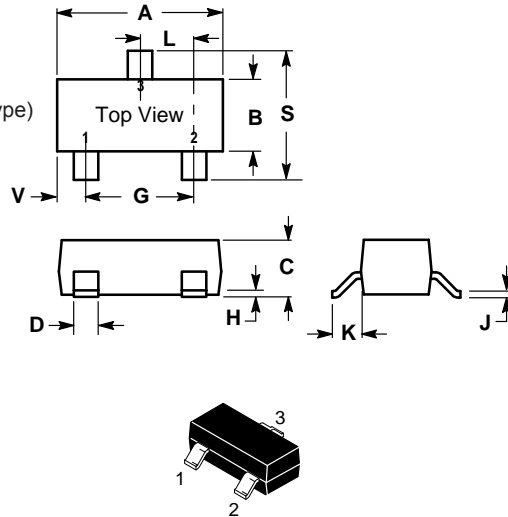
A suffix of "-C" specifies halogen & lead-free

## 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		

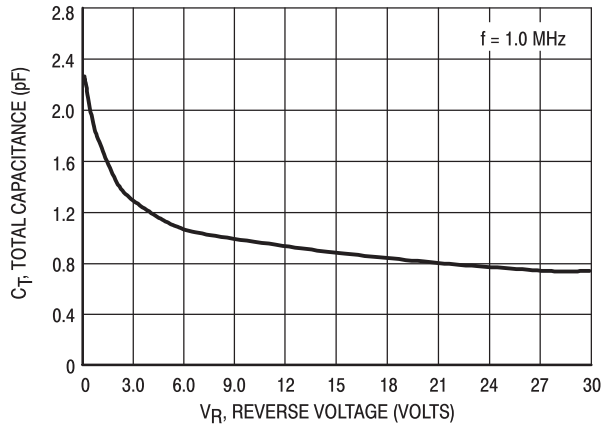
## MAXIMUM RATINGS (T<sub>J</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	30	V
Total Device Dissipation FR-5 Board <sup>(1)</sup> , T <sub>A</sub> =25°C Derate above 25°C	P <sub>d</sub>	200 2.0	mW mW/°C
Operation Junction Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	°C

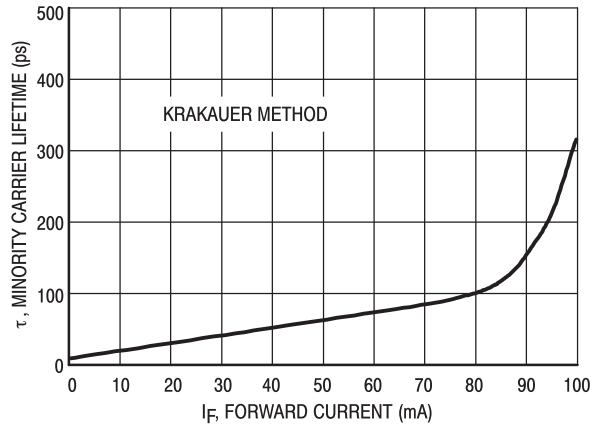
## ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage I <sub>R</sub> =10uA	V <sub>(BR)R</sub>	30	-	-	V
Maximum Instantaneous Forward Voltage I <sub>F</sub> =1.0mA I <sub>F</sub> =10mA	V <sub>F</sub>	-	0.38 0.52	0.45 0.60	V
Reverse Leakage V <sub>R</sub> =25V	I <sub>R</sub>	-	13	200	nA
Diode Capacitance V <sub>R</sub> =15V, f=1.0MHz	C <sub>T</sub>	-	0.9	1.5	pF

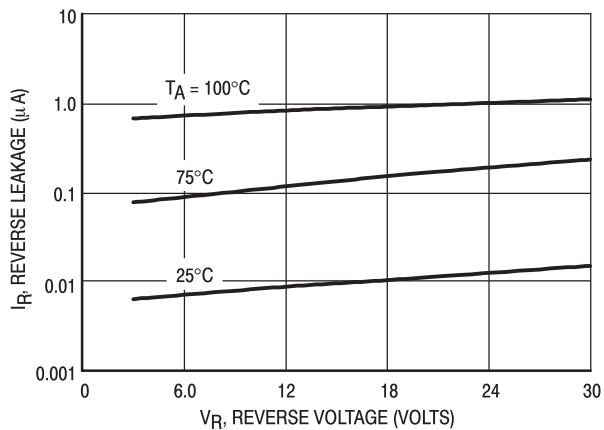
**Electrical Characteristics Curves (Ta=25°C unless specified otherwise)**



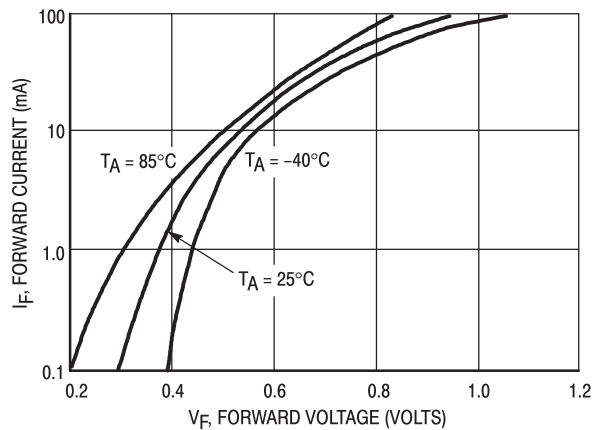
**Figure 1. Total Capacitance**



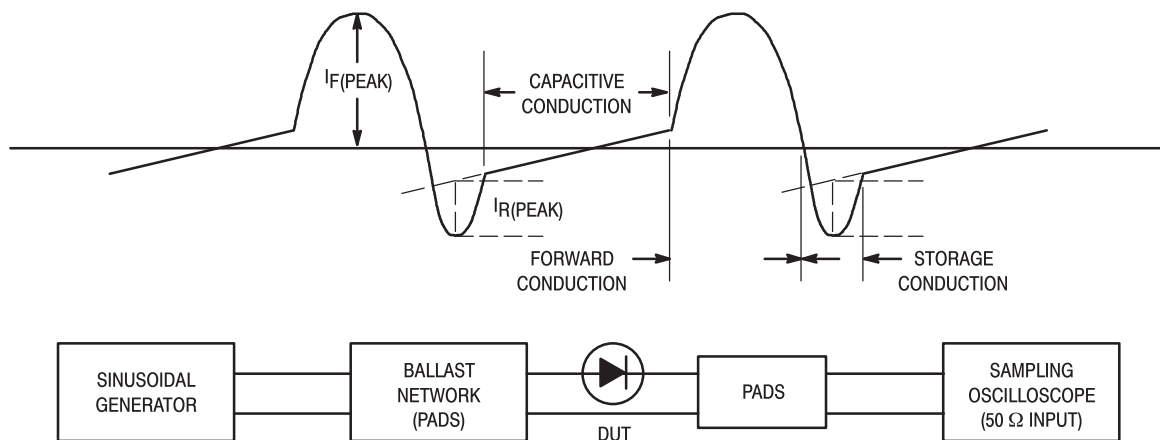
**Figure 2. Minority Carrier Lifetime**



**Figure 3. Reverse Leakage**



**Figure 4. Forward Voltage**



**Figure 5. Krakauer Method of Measuring Lifetime**