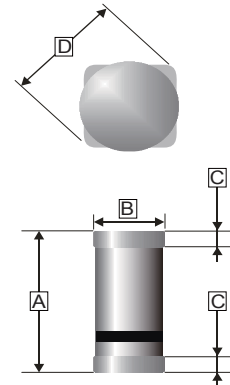


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Fast Switching Device ( $T_{RR} < 4.0\text{nS}$ )
- QUADRO Mini-MELF Package
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Terminals Are Readily Solderable
- Matte Tin (Sn) Lead Finish
- Color band Indicates Negative Polarity

QUADRO (Mini-MELF)



REF.	Millimeter	
	Min.	Max.
A	3.30	3.70
B	1.40	1.60
C	0.35	0.45
D	1.8 Typ.	



Cathode

Anode

## ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Power Dissipation	$P_D$	500	mW
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	150, -65~150	$^\circ\text{C}$
Working Inverse Voltage	$W_{IV}$	75	V
Average Rectified Current	$I_O$	150	mA
Non-repetitive Peak Forward Current	$I_{FM}$	450	mA
Peak Forward Surge Current	$I_{FSURGE}$	2	A

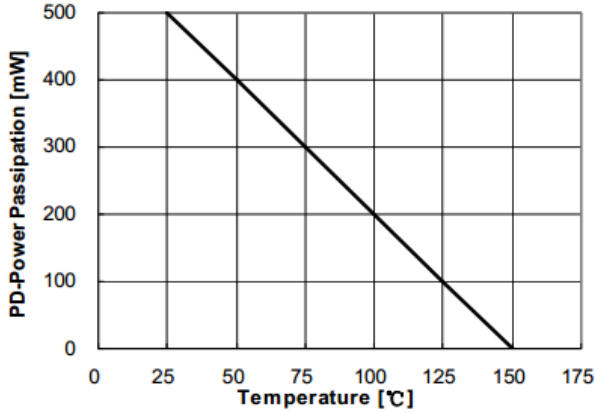
Notes:

1. These ratings are limiting values above which the serviceability of the diode may be impaired.

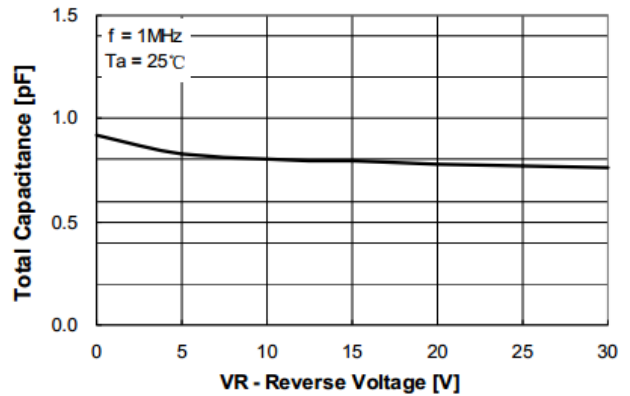
## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Limits		Unit	Test Condition
		Min	Max		
Breakdown Voltage	$B_V$	100	-	V	$I_R=100\mu\text{A}$
		75	-		$I_R=5\mu\text{A}$
Reverse Leakage Current	$I_R$	-	25	nA	$V_R=20\text{V}$
		-	5		$V_R=75\text{V}$
Forward Voltage	$V_F$	0.62	0.72	V	$I_F=5\text{mA}$
		-	1.0		$I_F=100\text{mA}$
Reverse Recovery Time	$T_{RR}$	-	4	nS	$I_F=I_R=10\text{mA}$
		-			$R_L=100\Omega$
		-			$I_{RR}=1\text{mA}$
Capacitance	C	-	4	pF	$V_R=0, f=1\text{MHz}$

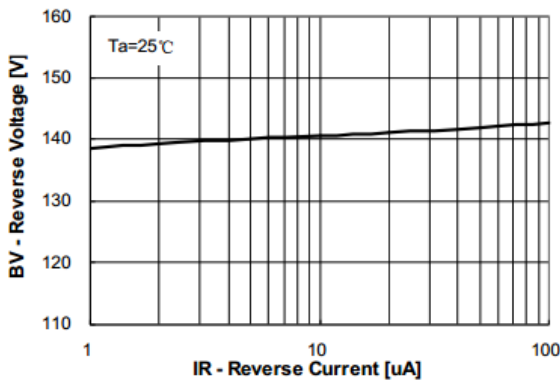
**RATINGS AND CHARACTERISTIC CURVES**



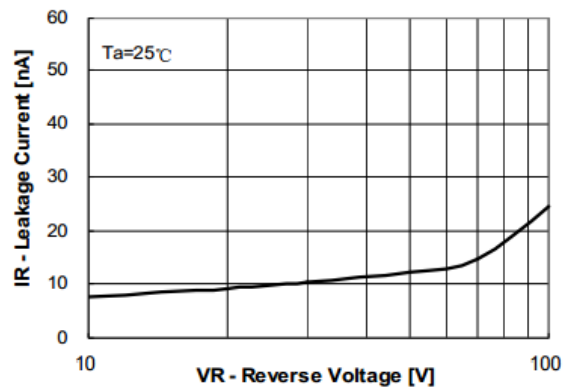
**Figure 1. Power Dissipation vs Ambient Temperature**  
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature



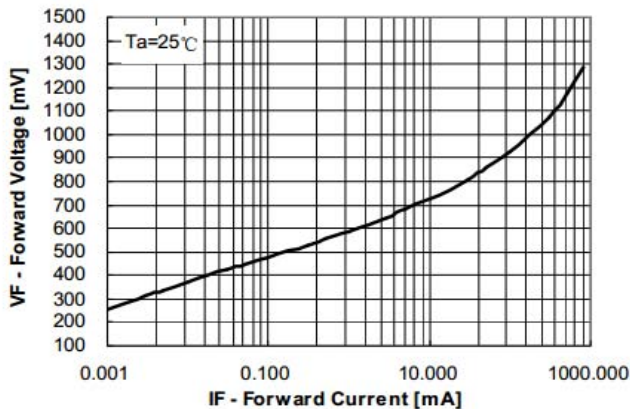
**Figure 2. Total Capacitance**



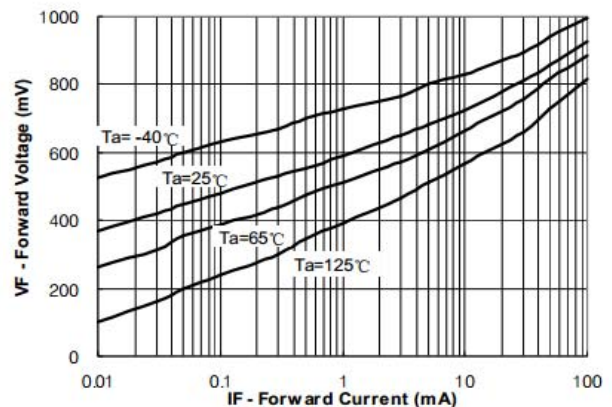
**Figure 3. Reverse Voltage vs Reverse Current**  
BV – 1.0uA to 100uA



**Figure 4. Reverse Current vs Reverse Voltage**  
IR – 10V to 100V



**Figure 5. Forward Voltage vs Forward Current**  
VF – 0.001mA to 800mA



**Figure 6. Forward Voltage vs Ambient Temperature**  
VF – 0.01mA to 100mA (-40 to +125 Deg C)