

Obsolete



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

**LS103A
LS103B
LS103C**

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Small surface mounting type(Quadro Melf)
- High reliability
- Low reverse current and low forward voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Applications

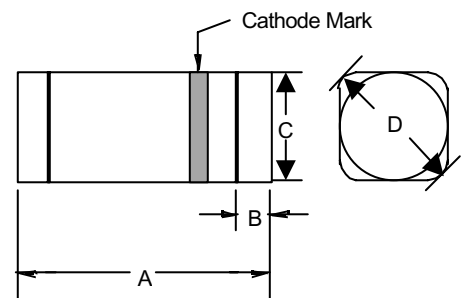
- Low current rectification and high speed switching

Maximum Ratings*

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	V _R	40	V
LS103A		30	V
LS103B		20	V
Power Dissipation at T _{amb} =25°C	P _D	400	mW
Forward current	I _{FM}	350	mA
Repetitive peak forward current t _p ≤ 1 s	I _{FRM}	1	A
Storage Temperature Range	T _{STG}	-65 to 175	°C
Thermal Resistance(Junction to Ambient)	R _{thJA}	300	K/W

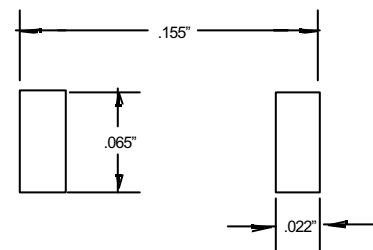
**350mA Schottky
Barrier Diode
20~40Volt**

Quadro MELF



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.063	1.40	1.60	∅
D	.067		1.70		

SUGGESTED SOLDER
PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

	Symbol	Maximum	Unit
Forward Voltage I _F =20mA I _F =200mA	V _F	0.37 0.60	V
Reverse current V _R =30V LS103A V _R =20V LS103B V _R =10V LS103C	I _R	5 5 5	uA
Diode capacitance V _R =V _F =0, f=1MHz	C _D	50	pF
Reverse recovery time I _F =I _R =20mA to 0.1I _R	t _{rr}	10	ns

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

Characteristics ($T_j=25^\circ\text{C}$ unless otherwise specified)

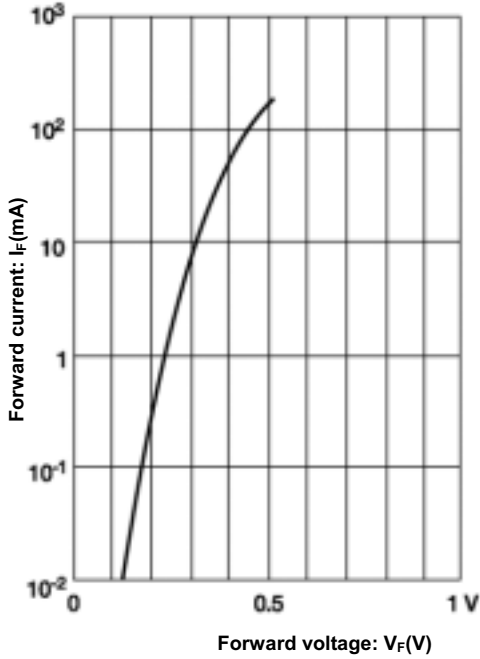


Figure 1. Typical variation of forward current vs. forward voltage for primary conduction through the schottky barrier

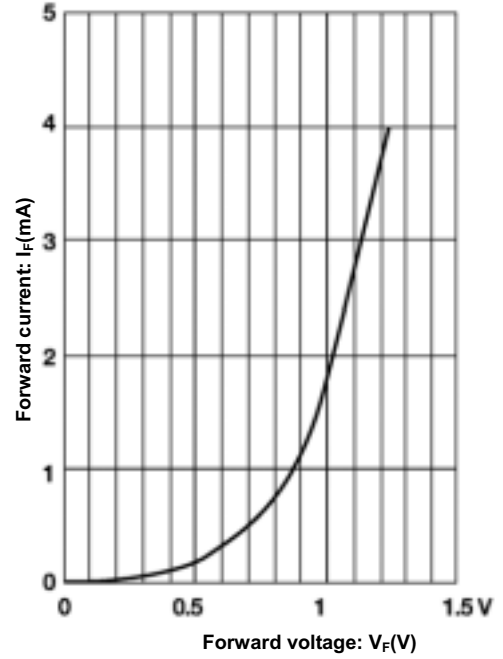


Figure 2. Typical high current forward conduction curve $t_p=300\text{ms}$, duty cycle=2%

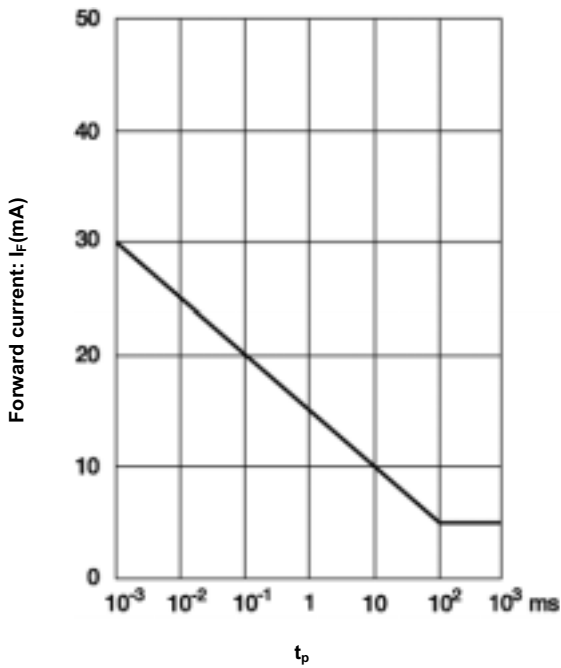


Figure 3. Typical non repetitive forward surge current vs. pulse width

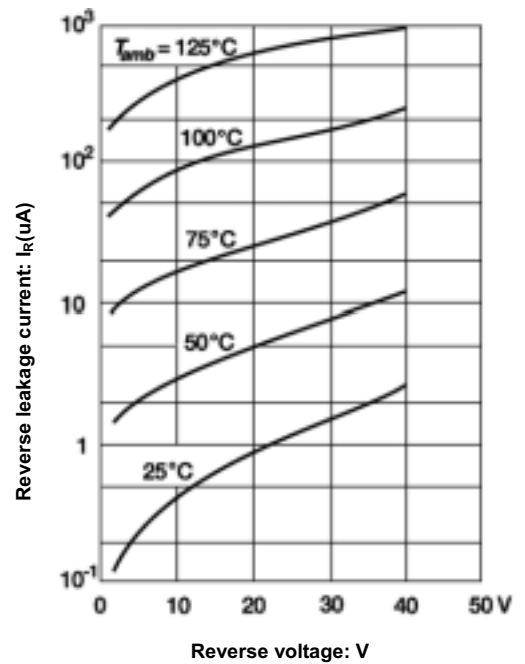


Figure 4. Typical variation of reverse current at various temperatures

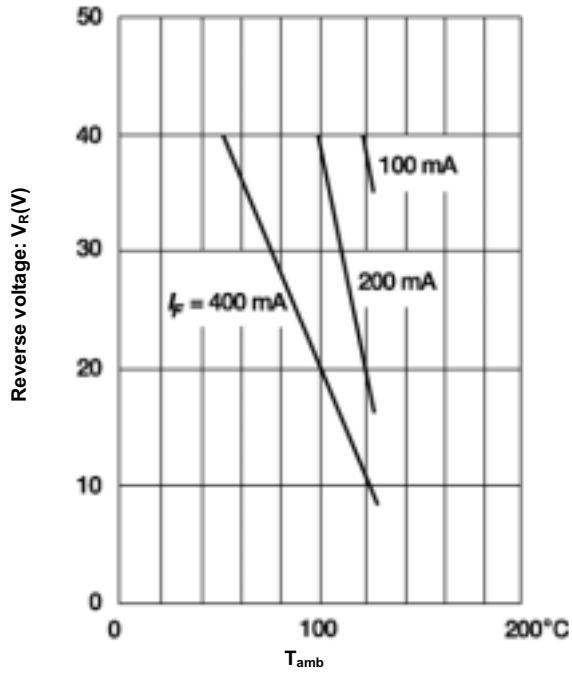


Figure 5. Blocking voltage duration vs. temperature at various average forward current

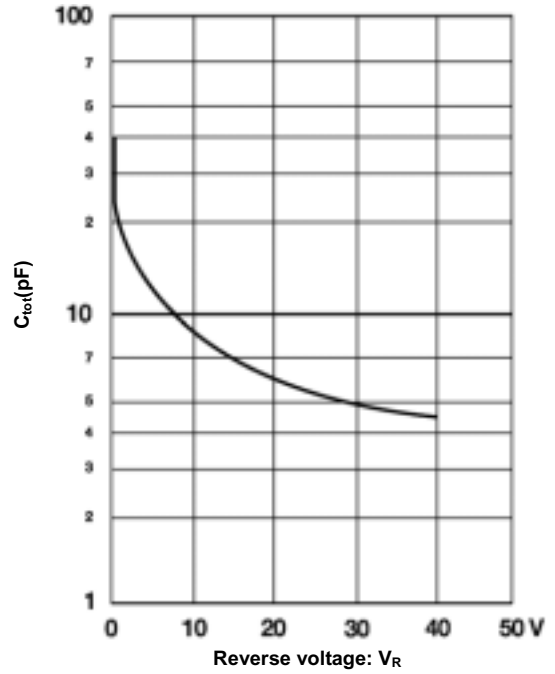


Figure 6. Typical capacitance vs. reverse voltage



Micro Commercial Components

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

*****LIFE SUPPORT*****

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.