

## *Micro Commercial Components Corp.*

### Products End of Life Notification

Issue date: Jan-1<sup>st</sup>-2009

Last Buy Date :N/A

Description and Purpose:

MCC has undergone a review of its core business and products , and

determined to discontinue below products:

Discontinued Devices	Possible Replacements
SD101A	N/A
SD101B	N/A
SD101C	N/A
SD103A	N/A
SD103B	N/A
SD103C	N/A
LLSD101A	SD101AW
LLSD101B	SD101BW
LLSD101C	SD101CW
LLSD103A	SD103AW
LLSD103B	SD103BW
LLSD103C	SD103CW
1N5711	N/A
DL5711	1N5711W
1N6263	N/A
DL6263	1N6263W



Micro Commercial Components

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# SD101A THRU SD101C

## Small Signal Schottky Diodes

### Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection

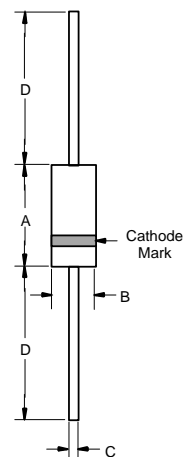
### Mechanical Data

- Case: DO-35, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Moisture Sensitivity: Level 1 per J-STD-020C

### Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	SD101A	SD101B	SD101C
Peak Repetitive Reverse Voltage	$V_{RRM}$			
Working Peak Reverse Voltage	$V_{RWM}$	60V	50V	40V
DC Blocking Voltage	$V_R$			
RMS Reverse Voltage	$V_{R(RMS)}$	42V	35V	28V
Maximum single cycle surge 10us square wave	$I_{FSM}$	2.0A		
Power Dissipation(Note 2)	$P_d$	400mW		
Thermal Resistance, Junction to Ambient	R	300K/W		
Junction Temperature	$T_j$	125°C		
Operation/Storage Temp. Range	$T_{STG}$	-55 to +150°C		

### DO-35



### Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Max	Test Condition
Leakage Current	SD101A SD101B SD101C	200nA 200nA 200nA	$V_R=50V$ $V_R=40V$ $V_R=30V$
Maximum Forward Voltage Drop	SD101A SD101B SD101C	0.41V 0.4V 0.39V	$I_F=1mA$ $I_F=15mA$
	SD101A SD101B SD101C	1V 0.95V 0.9V	
Junction Cap.	SD101A SD101B SD101C	2.0pF 2.1pF 2.2pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	1ns	$I_F=I_R=50mA$ , recover to 200mA/0.11 $I_R$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.  
 2. Valid provided that electrodes are kept at ambient temperature

# SD101A thru SD101C

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

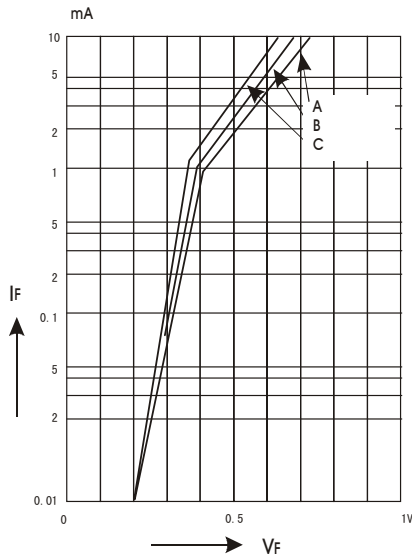


Figure 2. Typical forward conduction curve of combination Schottky barrier and PN junction guard ring

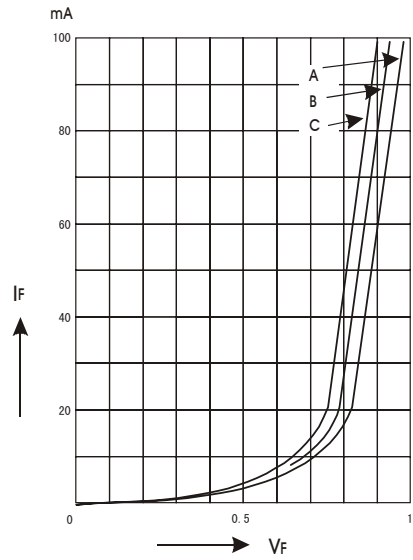


Figure 3. Typical variation of reverse current at versus temperature

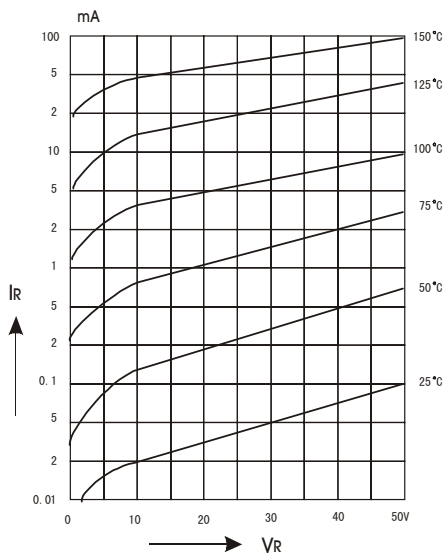
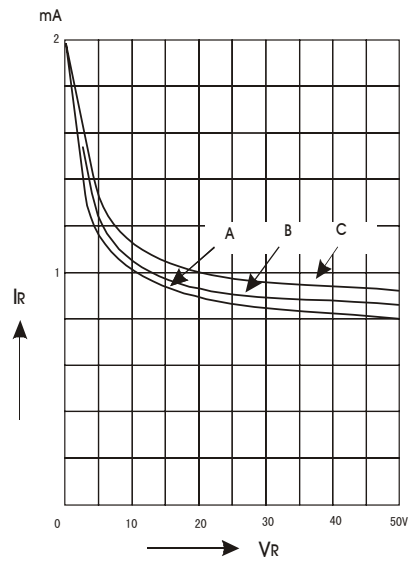


Figure 4. Typical capacitance curve as a function of reverse voltage





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## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 10Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Bag

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