

Micro Commercial Components



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

D₂ D₃

SD103ATW

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- Three Fully Isolated Schottky Diodes
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Marking: KLL
- Moisture Sensitivity Level 1

Maxim um Ratings

Symbol	Rating	Rating	Unit
V _{RRM}	Peak Repetitive Reverse Voltage		
V _{RWM}	Working Peak Reverse Voltage	40	V
VR	DC Blocking Voltage		
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _{FM}	Forward Continuous Current(note.1)	350	mA
lo	Average Rectified Output Current(note.1)	175	mA
I _{FSM}	Peak Forward Surge Current @t<=10ms	1.0	А
R _{°JA}	Thermal Resistance Junction to Ambient	500	°C/W
PD	Power dissipation	200	mW
TJ	Junction Temperature	125	°C
T _{STG}	Storage Temperature	-55 to +125	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
V _(BR)	Reverse Breakdown Voltage	40V		I _R =100 µ A(note.2)
I _R	Reverse Voltage Leakage Current(note.2)		2μΑ 5μΑ	V _R =10V V _R =30V
V _F	Forward Voltage(note.2)	 	0.27V 0.32V 0.37V 0.50V	$I_F=1.0mA$ $I_F=5.0mA$ $I_F=20mA$ $I_F=100mA$
CT	Total Capacitance		50pF	V _R =0V, f=1MHZ
t _{rr}	Reverse Recovery Time		10.0ns	$I_F=IR=200mA$, Irr=0.1*IR,RL=100 Ω

200mW SCHOTTKY BARRIER DIODE



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.006	.014	0.15	0.35		
В	.045	.053	1.15	1.35		
С	.085	.096	2.15	2.45		
D	.02	6	0.65Nominal			
G	.047	.055	1.20	1.40		
Н	.071	.087	1.80	2.20		
J		.004		0.10		
К	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
М	.003	.006	0.08	0.15		

Notes: 1. This is the maximum rating of single Diode (D₁ or D₂ or D₃). In the case of using two or three diodes, the maximum ratings per diode are 75% of the ratings for single diode operation.

2. Short duration test pulse used to minimize self-heating effect.

www.mccsemi.com

SD103ATW



30

40

35



Fig. 4 Power Derating Curve

100

125

www.mccsemi.com



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/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.

