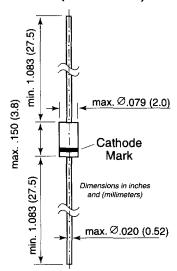


SD101A thru SD101C

Schottky Diodes



DO-204AH (DO-35 Glass)



Features

- · For general purpose applications
- The LL101 series is a metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring.
- The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications.
- These diodes are also available in the SOD-123 case with type designations SD101AW thru SD101CW and in the MiniMELF case with type designations LL101A thru LL101C.

Mechanical Data

Case: DO-35 Glass Case
Weight: approx. 0.13g
Packaging Codes/Options:

D7/10K per 13" reel (52mm tape), 20K/box D8/10K per Ammo tape (52mm tape), 20K/box

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter		Symbol	Value	Unit	
Peak Inverse Voltage	SD101A SD101B SD101C	VRRM	60 50 40	V	
Power Dissipation (Infinite Heatsink)		Ptot	400 ⁽¹⁾	mW	
uximum Single Cycle Surge 10µs Square Wave		IFSM	2	A	
Thermal Resistance Junction to A	mbient Air	Reja	0.3 ⁽¹⁾	°C/mW	
Junction Temperature		Tj	125 ⁽¹⁾	Ç	
Storage Temperature Range		Ts	-55 to +150 ⁽¹⁾	ů	

Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature.



SD101A thru SD101C

Schottky Diodes

Electrical Characteristics (TA = 25°C unless otherwise noted)

Parameter		Symbol	Test Condition	Min	Тур	Max	Unit
Reverse Breakdown Voltage	SD101A SD101B SD101C	V _(BR) R	IR = 10μA	60 50 40	_ _ _		v
Leakage Current	SD101A SD101B SD101C	IR	VR = 50V VR = 40V VR = 30V		=	200 200 200	nA
Forward Voltage Drop	SD101A SD101B SD101C	VF	IF = 1mA		_ _	0.41 0.4 0.39	v
	SD101A SD101B SD101C		I _F = 15mA		_ _ _	1 0.95 0.9	
Junction Capacitance	SD101A SD101B SD101C	Ctot	V _R = 0V, f = 1MHz	= =	_	2.0 2.1 2.2	pF
Reverse Recovery Time		trr	IF = IR = 5mA, recover to 0.1IR			1	ns

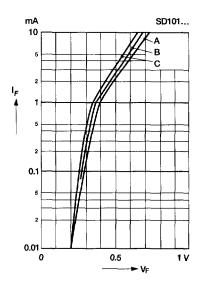


SD101A thru SD101C

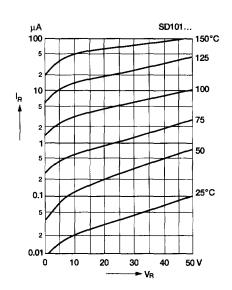
Schottky Diodes

Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

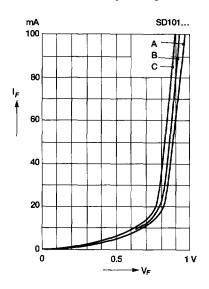
Typical variation of fwd. current vs. fwd. voltage for primary conduction through the Schottky barrier



Typical variation of reverse current at various temperatures



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



Typical capacitance curve as a function of reverse voltage

