

Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic		Symbol	SD101AWS	SD101BWS	SD101CWS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	60	50	40	V
RMS Reverse Voltage		V _{R(RMS)}	42	35	28	V
Forward Continuous Current (Note 4)		I _{FM}		15		mA
Non-Repetitive Peak Forward Surge Current	@ t ≤ 1.0s @ t = 10μs	I _{FSM}	50 2.0		mA	

Thermal Characteristics

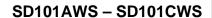
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 4)	P_{D}	200	mW
Thermal Resistance, Junction to Ambient Air (Note 4)	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +125	°C

Electrical Characteristics @TA = 25°C unless otherwise specified

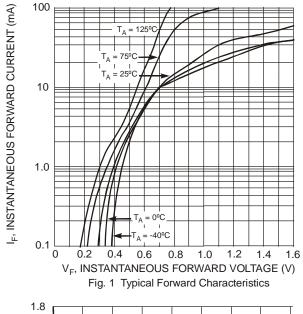
Characteristic		Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Breakdown Voltage (Note 5) SD101BW	SD101AWS	V _{(BR)R}	60	_	_		$I_R = 10\mu A$
	SD101BWS		50	_	_		$I_R = 10\mu A$
	SD101CWS		40	_	_		$I_R = 10\mu A$
Forward Voltage Drop	SD101AWS	V _{FM}	_	_	0.41		$I_F = 1.0 \text{mA}$
	SD101BWS			_	0.40		$I_F = 1.0 \text{mA}$
	SD101CWS		_	_	0.39		$I_F = 1.0 \text{mA}$
	SD101AWS			_	1.00		$I_F = 15mA$
	SD101BWS			_	0.95		$I_F = 15mA$
	SD101CWS		_	_	0.90		$I_F = 15mA$
Peak Reverse Current (Note 5)	SD101AWS	I _{RM}		_	200	nA	$V_R = 50V$
	SD101BWS		_	_	200		$V_R = 40V$
	SD101CWS			_	200		$V_R = 30V$
Total Capacitance	SD101AWS	Ст		_	2.0	pF	$V_R = 0V$, $f = 1.0MHz$
	SD101BWS		_	_	2.1		$V_R = 0V$, $f = 1.0MHz$
	SD101CWS			_	2.2		$V_R = 0V$, $f = 1.0MHz$
Reverse Recovery Time		t _{rr}	_	_	1.0	ns ns	$I_F = I_R = 5.0 \text{mA},$
							$I_{rr} = 0.1 \text{ x } I_{R}, R_{L} = 100\Omega$

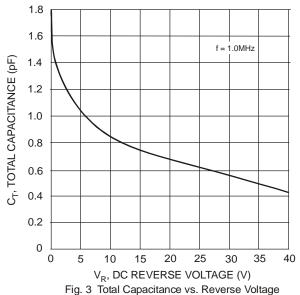
Notes: 4. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.

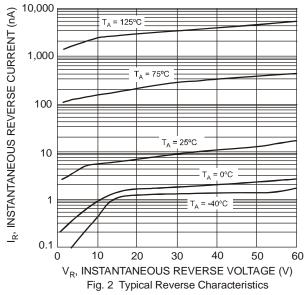
^{5.} Short duration pulse test used to minimize self-heating effect.

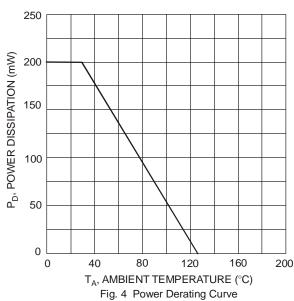




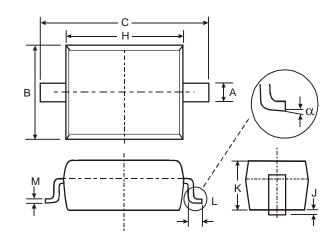








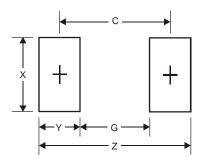
Package Outline Dimensions



SOD323					
Dim	Min	Max			
Α	0.25	0.35			
В	1.20	1.40			
C	2.30	2.70			
Н	1.60	1.80			
7	0.00	0.10			
K	1.0	1.1			
٦	0.20	0.40			
M	0.10	0.15			
α	0°	8°			
All Dimensions in mm					



Suggested Pad Layout



Dimensions	Value (in mm)
Z	3.75
G	1.05
Х	0.65
Υ	1.35
С	2.40

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