

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _R WM V _R	75	V
RMS Reverse Voltage		V _{R(RMS)}	53	V
Average Rectified Output Current		Io	150	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	I _{FSM}	2.0 0.5	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P_{D}	200	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ hetaJA}$	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

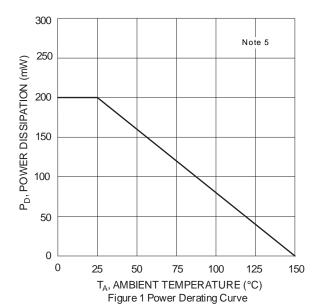
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	75		V	$I_R = 100\mu A$
Forward Voltage	V _F		0.715 0.855 1.0 1.25	٧	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
Peak Reverse Current (Note 6)	I _{RM}	_	1.0 50 30 25	μΑ μΑ μΑ nA	$V_R = 75V$ $V_R = 75V$, $T_J = +150$ °C $V_R = 25V$, $T_J = +150$ °C $V_R = 20V$
Total Capacitance	Ст	_	2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}		4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$

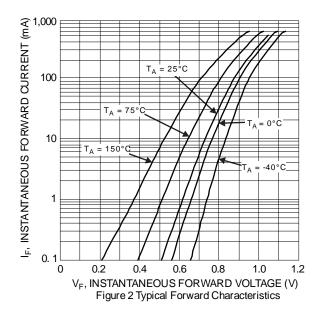
Notes:

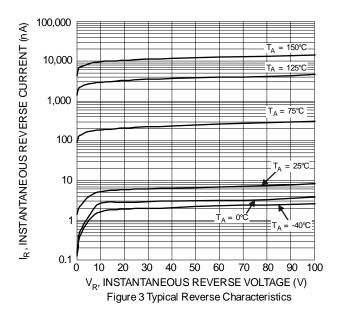
^{5.} Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.

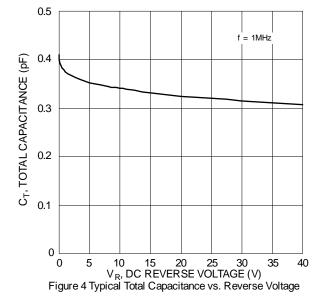
^{6.} Short duration pulse test used to minimize self-heating effect.







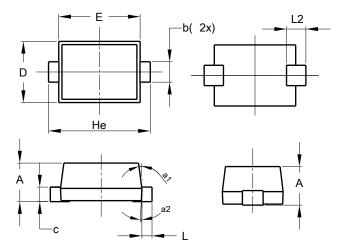






Package Outline Dimensions

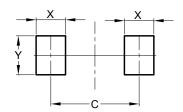
Please see http://www.diodes.com/package-outlines.html for the latest version.



(0	SOD923 (0.2mm Lead Width)					
Dim	Min	Max	Тур			
Α	0.34	0.40	0.37			
b	0.15	0.25	0.20			
С	0.070	0.170	0.120			
D	0.55	0.65	0.60			
Е	0.75	0.85	0.80			
He	0.95	1.05	1.00			
L	0.05	0.15	0.10			
L2	0.190 REF					
a1	0°	8°	7°			
a2	2°	4°	3°			
All	All Dimensions in mm					

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value (in mm)		
С	0.900		
Х	0.300		
Υ	0.400		



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