

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

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	85	V
RMS Reverse Voltage		V _{R(RMS)}	60	V
Forward Continuous Current (Note 6)		I _{FM}	215	mA
Repetitive Peak Forward Current		I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0ms @ t = 1.0s	I _{FSM}	4.0 1.0 0.5	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	PD	375	mW
Thermal Resistance Junction to Ambient Air (Note 6)	R _{θJA}	330	°C/W
Thermal Resistance Junction to Solder Point	R _{0JSP}	70	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	С°

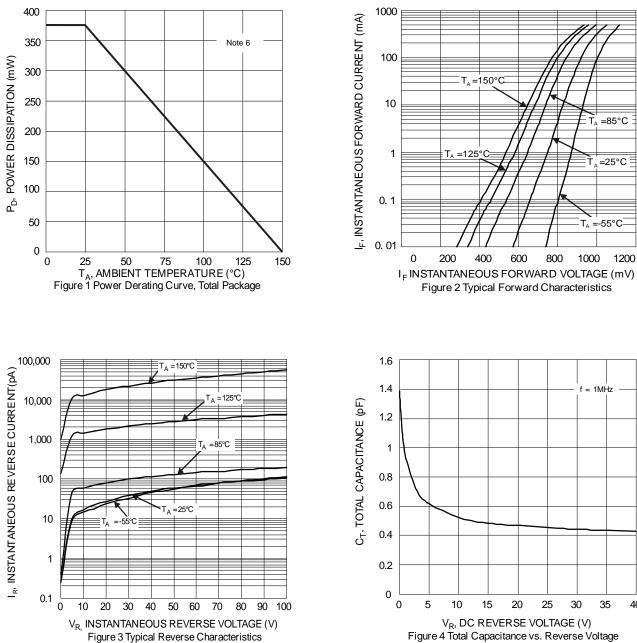
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	V _{(BR)R}	85	_		V	I _R = 100μA
Forward Voltage	VF	_	_	0.9 1.0 1.1 1.25	v	$I_{F} = 1.0mA$ $I_{F} = 10mA$ $I_{F} = 50mA$ $I_{F} = 150mA$
Leakage Current (Note 7)	I _R	_	_	5.0 80	nA nA	V _R = 75V V _R = 75V, T _J = +150°C
Total Capacitance	CT	_	2	_	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}		_	3.0	μs	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$

Notes: 6. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf. 7. Short duration pulse test used to minimize self-heating effect.







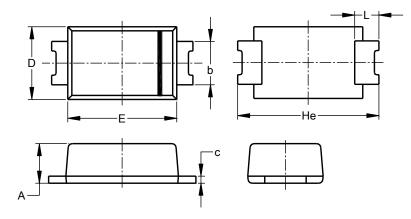
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Package Outline Dimensions

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.

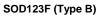
SOD123F (Type B)

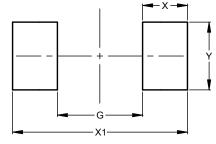


SOD123F (Type B)				
Dim	Min	Max	Тур	
Α	0.81	1.15	_	
b	0.80	1.35	_	
Ċ	0.05	0.30	_	
D	1.70	1.90	1.80	
Е	2.60	2.80	2.70	
He	3.30	3.70	3.50	
L	0.35	0.85	_	
All Dimensions in mm				

Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.





Dimensions	Value (in mm)
G	1.90
Х	1.00
X1	3.90
Y	1.50



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