

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	30	V
RMS Reverse Voltage		V _{R(RMS)}	21	V
Maximum (Peak) Forward Current		I _{FM}	200	mA
Peak Forward Surge Current	8.3ms Half Sine	I _{FSM}	1.0	A

Thermal Characteristics

	-		
Characteristic	Symbol	Value	Unit
Power Dissipation	PD	250	mW
Thermal Resistance, Junction to Ambient Air (Note 5)	R _{ÐJA}	400	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +125	°C

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

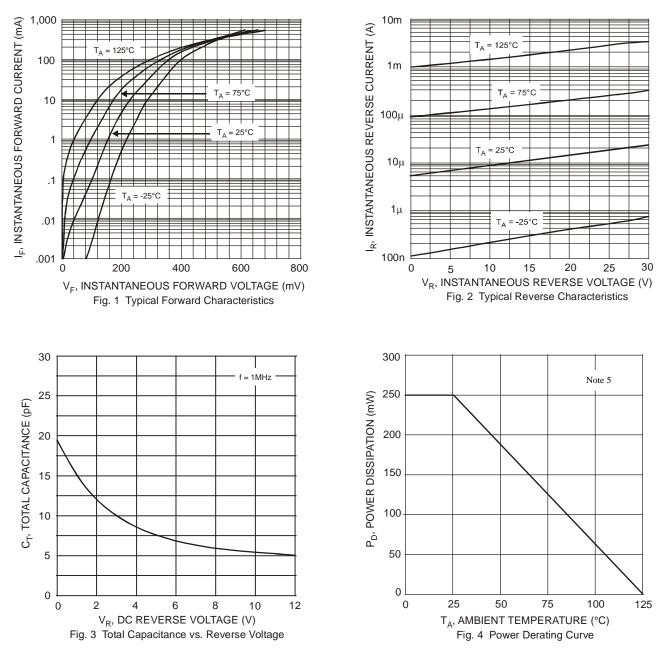
Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	30	—	—	V	I _R = 150μA
Forward Voltage Drop	VF		—	350 575	mV	$I_F = 20mA$ $I_F = 200mA$
Peak Reverse Current (Note 6)	I _R		—	150 30	μΑ μΑ	V _R = 30V V _R = 10V
Total Capacitance	CT	_	20	—	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}		3	_	nS	$I_F = I_R = 10 \text{mA}, I_{R(REC)} = 1 \text{mA}, R_L = 100\Omega$

Notes:

5.Device mounted on FR-4 substrate PCB, with minimum recommended pad layout.
6. Short duration pulse test used to minimize self-heating effect.



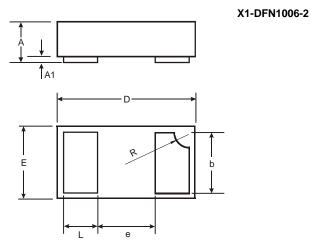
SDM20U30LP





Package Outline Dimensions

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

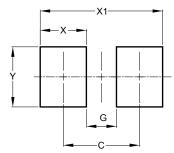


X1-DFN1006-2					
Dim	Min	Max	Тур		
Α	0.47	0.53	0.50		
A1	0	0.05	0.03		
b	0.45	0.55	0.50		
D	0.95	1.075	1.00		
Е	0.55	0.675	0.60		
е	-	-	0.40		
L	0.20	0.30	0.25		
R	0.05	0.15	0.10		
All Dimensions in mm					

Suggested Pad Layout

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





Dimension	Value
s	(in mm)
С	0.70
G	0.30
Х	0.40
X1	1.10
Y	0.70

SDM20U30LP Document number: DS30589 Rev. 13 - 2 Downloaded from Arrow.com.



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