



SDM20U30LP

SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

Low Forward Voltage Drop Guard Ring Construction for

Transient Protection

Low Capacitance

Ultra-Small Surface Mount Package

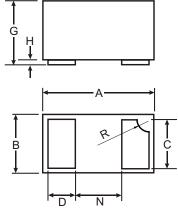
Lead Free By Design/RoHS Compliant (Note 1)

"Green" Device (Note 2) Qualified to AEC-Q101 Standards for High Reliability

Mechanical Data

Case: DFN1006-2

Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0 Moisture Sensitivity: Level 1 per J-STD-020C Terminal Connections: Cathode Dot Terminals: Finish NiPdAu annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 Marking Code: LM, Dot Denotes Cathode Side Ordering Information: See Last Page Weight: 0.001 grams



DFN1006-2				
Dim	Min	Max	Тур	
Α	0.95	1.075	1.00	
В	0.55	0.675	0.60	
С	0.45	0.55	0.50	
D	0.20	0.30	0.25	
G	0.47	0.53	0.50	
н	0	0.05	0.03	
N			0.40	
R	0.05	0.15	0.10	
All Dimensions in mm				

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 Sin	e I _{FSM}	1.0	A
Operating and Storage Temperature Range	Tj, T _{STG}	-65 to +125	С

Thermal Characteristics @ T_A = 25 C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation	Pd	250	mW
Thermal Resistance, Junction to Ambient Air	R _{JA}	400	C/W

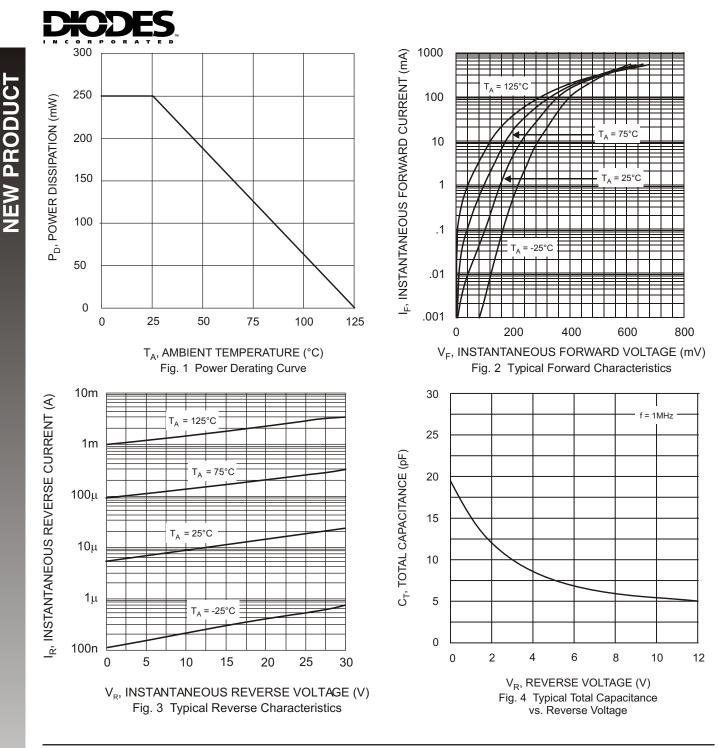
Electrical Characteristics @ T_A = 25 C unless otherwise specified

Characteristic	Symbol	Min	Тур	Мах	Unit	Test Conditions
Reverse Breakdown Voltage (Note 3)	V _{(BR)R}	30			V	I _R = 150 A
Forward Voltage Drop	VF			350 575	mV	$I_F = 20mA$ $I_F = 200mA$
Peak Reverse Current (Note 3)	IR			150 30	A A	V _R = 30V V _R = 10V
Total Capacitance	CT		20		pF	V _R = 0V, f = 1.0MHz

Note: 1. No purposefully added lead.

2. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.

3. Short duration pulse test used so as to minimize self-heating effect.



Ordering Information (Note 4)

Device	Packaging	Shipping			
SDM20U30LP-7	DFN1006-2	3000/Tape & Reel			

Note: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information

• LM

LM = Product Type Marking Code, Dot Denotes Cathode Side



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