

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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.			
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} Vr	200	V
RMS Reverse Voltage	V _{R(RMS)}	141	V
Average Forward Current	I _{F(AV)}	1.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	40	А

Thermal Characteristics

Characteristic	Symbol	Тур	Max	Unit
Thermal Resistance Junction to Ambient (Note 6)	R _{0JA}	132	—	°C/W
Thermal Resistance Junction to Soldering Point (Note 7)	R _{0JS}		7	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to	+150	°C

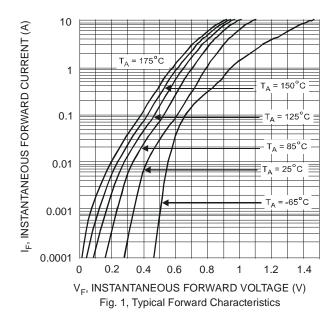
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

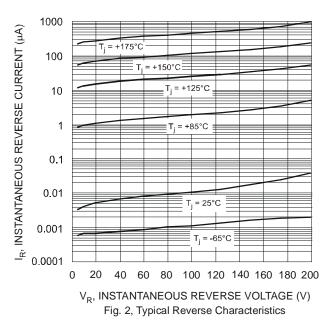
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 8)	V _{(BR)R}	200			V	$I_R = 8\mu A$
Forward Voltage	VF	_	_	0.85	V	I _F = 1.0A
Leakage Current (Note 8)	I _R	_	_	2	μA	V _R = 200V, T _A = +25°C
Total Capacitance	CT	_	23	_	pF	$V_R = 5VDC, f = 1MHz$

Notes: 6. Part mounted on FR-4 board with 2 oz., minimum recommended copper pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf. T_A = +25°C.

7. Theoretical R_{BJS} calculated from the top center of the die straight down to the PCB/cathode tab solder junction.

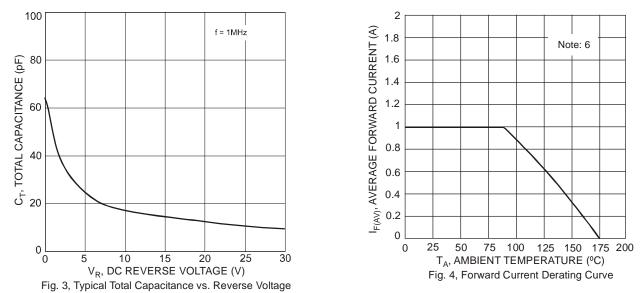
8. Short duration pulse test used to minimize self-heating effect.





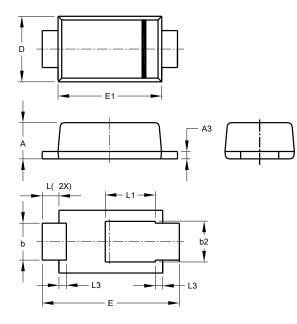


DFLS1200Q



Package Outline Dimensions

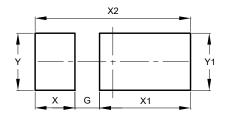
Please see AP02001 at http://www.diodes.com/_files/datasheets/ap02001.pdf for the latest version.



POWERDI [®] 123					
Dim	Min	Max	Тур		
Α	0.93	1.00	0.98		
A3	0.15	0.25	0.20		
b	0.85	1.25	1.00		
b2	1.025	1.125	1.10		
D	1.63	1.93	1.78		
E	3.50	3.90	3.70		
E1	2.60	3.00	2.80		
L	0.40	0.50	0.45		
L1	1.25	1.40	1.35		
L3	0.125	0.275	0.20		
All Dimensions in mm					

Suggested Pad Layout

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



Dimensions	Value		
Dimensions	(in mm)		
G	0.65		
Х	1.05		
X1	2.40		
X2	4.10		
Y	1.50		
Y1	1.50		



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