



DFLS260

2.0A SURFACE-MOUNT SCHOTTKY BARRIER RECTIFIER

Features

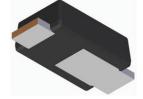
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- Patented Interlocking Clip Design for High Surge Current Capacity
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- An automotive-compliant part is available under separate datasheet (DFLS260Q)

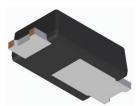
Mechanical Data

- Package: PowerDI®123
- Package Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminal Connections: Cathode Band
- Terminals: Finish Matte Tin Annealed over Copper Leadframe. Solderable per MIL-STD-202, Method 208 @3
- Weight: 0.01 grams (Approximate)

PowerDI123







Top View

Bottom View

Ordering Information (Note 4)

Part Number	Deckers	Packing		
Part Number	Package	Qty.	Carrier	
DFLS260-7	PowerDI123	3000	Tape & Reel	

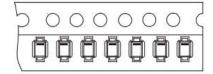
Notes:

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Marking Information



F17A = Product Type Marking Code YM = Date Code Marking Y = Year (ex: K = 2023)M = Month (ex: 9 = September)



Date Code Key

Bate Gode Rey												
Year	2012	-	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Code	Z	-	K	L	М	Ν	Р	R	S	Т	U	V
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



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

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _R M V _R WM V _R	60	٧
RMS Reverse Voltage	V _R (RMS)	42	V
Average Forward Current	I _{F(AV)}	2.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	IFSM	50	А

Thermal Characteristics

Characteristic	Symbol	Тур	Max	Unit
Thermal Resistance Junction to Soldering Point (Note 5)	Rejs	_	6	°C/W
Thermal Resistance Junction to Ambient (Note 6)	Reja	125	_	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to	+150	°C

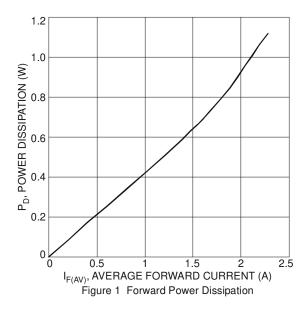
Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

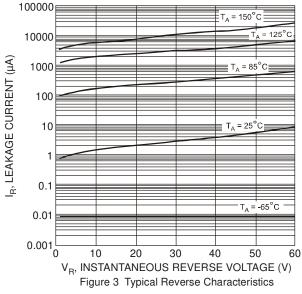
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	$V_{(BR)R}$	60	_	_	٧	$I_R = 0.2mA$
Forward Voltage	V _F			0.62 0.56		I _F = 2.0A, T _A = +25°C I _F = 2.0A, T _A = +125°C
Leakage Current (Note 7)	IR			0.1	mA	V _R = 60V, T _A = +25°C
Total Capacitance	Ст	_	67	_	рF	V _R = 10V, f = 1.0MHz

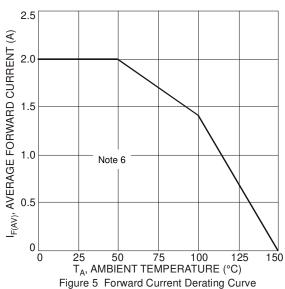
Notes:

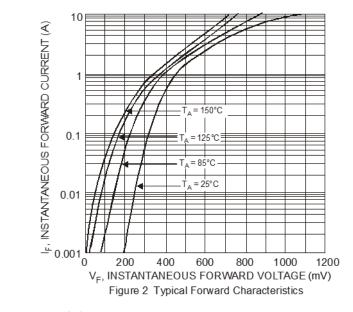
- 5. Theoretical R_{BJS} calculated from the top center of the die straight down to the PCB/cathode tab solder junction.
 6. Part mounted on FR-4 board with 2oz., minimum recommended copper pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.
 7. Short duration pulse test to minimize self-heating effect.

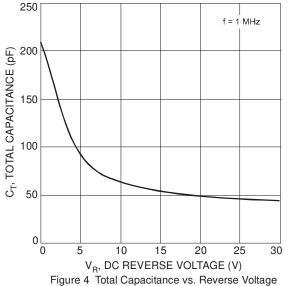












6. Part mounted on FR-4 board with 2oz., minimum recommended copper pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.

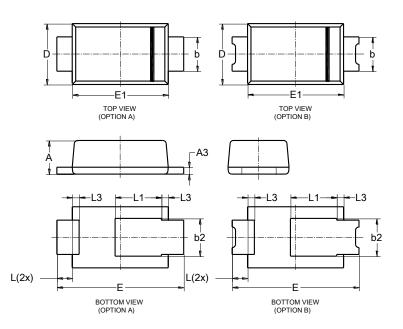
Note:



Package Outline Dimensions

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

PowerDI123

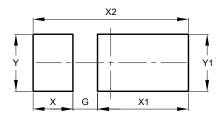


PowerDI123						
Dim	Min	Max	Тур			
Α	0.93	1.00	0.98			
A3	0.15	0.25	0.20			
b	0.85	1.25	1.00			
b2	1.025	1.125	1.10			
D	1.63	1.93	1.78			
Е	3.50	3.90	3.70			
E1	2.60	3.00	2.80			
L	0.40	0.50	0.45			
L1	1.25	1.40	1.35			
L3	0.125	0.275	0.20			
All Dimensions in mm						

Suggested Pad Layout

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

PowerDI123



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



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