

### DFLS120 THRU DFLS1200

PIN

# Surface Mount Schottky Barrier Rectifier Reverse Voltage - 20 to 200 V Forward Current - 1.0 A FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

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• Case: SOD-123FL

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight:15mg 0.00048oz

#### **Absolute Maximum Ratings and Electrical characteristics**

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

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DESCRIPTION

Cathode

Parameter	Symbols	DFLS120	DFLS140	DFLS160	DFLS180	DFLS1100	DFLS1120	DFLS1150	DFLS1200	Unite
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	Vpc	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	laximum Average Forward Rectified Current $I_{F(AV)}$ 1.0							А		
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub> 40 30					А				
Max Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	0.55 0.70			0	0.85		0.90		
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Reverse Voltage T <sub>a</sub> = 100°C	I <sub>R</sub>	0.3 10			0.2 5			0.1 2		mA
Typical Junction Capacitance 13	C <sub>j</sub>	110				80				
TypicalThermal Resistance 23	RaJA	. 115						°C/W		
Operating Junction Temperature Range	T <sub>j</sub> -55 ~ +125							°c		
Storage Temperature Range	Tsig	-55 ~ +150							°C	

<sup>1)</sup> Measured at 1MHz and applied reverse voltage of 4 V D.C.

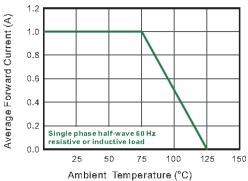
REV.08

<sup>2)</sup> P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.



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Fig.1 Forward Current Derating Curve



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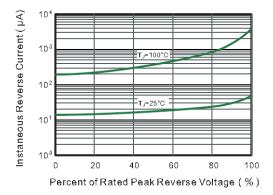


Fig.2 Typical Reverse Characteristics

Fig.3 Typical Forward Characteristic

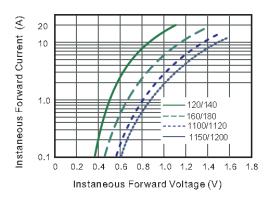


Fig.4 Typical Junction Capacitance

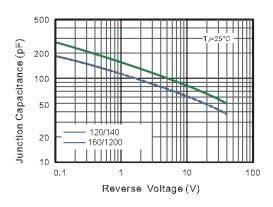


Fig.5 Maximum Non-Repetitive Peak

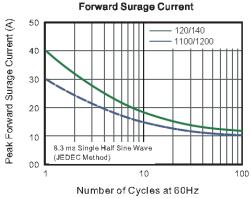
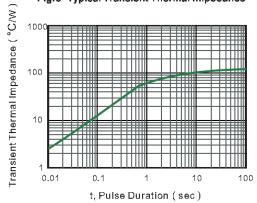


Fig.6- Typical Transient Thermal Impedance

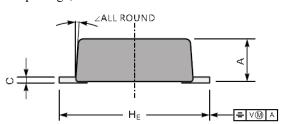


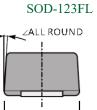


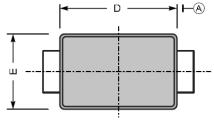
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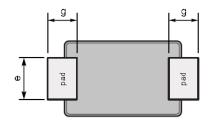
#### PACKAGE OUTLINE

Plastic surface mounted package; 2 leads







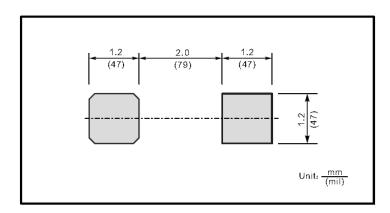


Top View

Bottom View

UNIT		Α	С	D	E	е	g	HE	Z	
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8		
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	7°	
mil	max	43	7.9	114	75	43	35	150		
	min	35	4.7	102	67	31	28	138		

### The recommended mounting pad size



### 单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)