



**TAYCHIPST**

Surface Mount Schottky Rectifier

DSK22 THRU DSK210

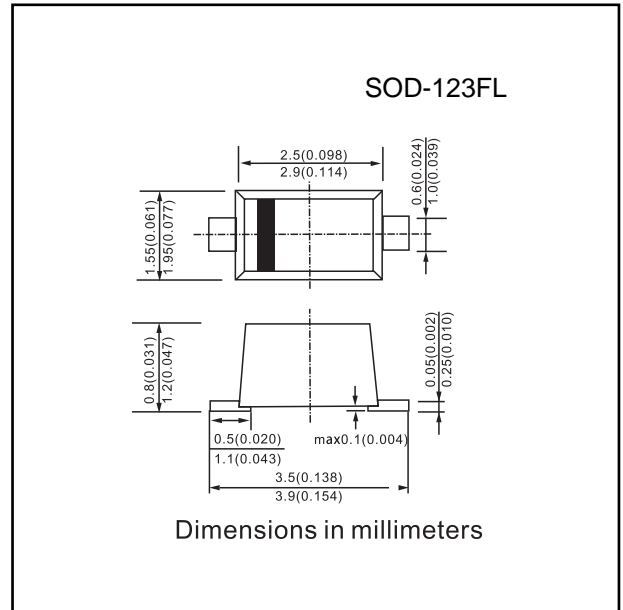
20V-100V 2.0A

**FEATURES**

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:  
260°C/10 seconds at terminals
- Component in accordance to  
RoHS 2002/95/1 and WEEE 2002/96/EC

**MECHANICAL DATA**

- **Case:** JEDEC SOD-123FL molded plastic body over passivated chip
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end
- **Weight:** 0.017gram



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(T<sub>A</sub> = 25 °C unless otherwise noted)

	Symbol	DSK22	DSK23	DSK24	DSK25	DSK26	DSK28	DSK210	UNIT	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V	
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V	
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V	
Maximum average forward rectified current	I <sub>F(AV)</sub>	2							A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	40							A	
Maximum instantaneous forward voltage at 2.0A	V <sub>F</sub>	0.50	0.55	0.70		0.85		V		
Maximum DC reverse current at Rated DC blocking voltage	I <sub>R</sub>	T <sub>A</sub> = 25 °C			1.0		T <sub>A</sub> = 100°C		10	mA
Typical thermal resistance	R <sub>θJL</sub>	28							°C/W	
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	- 65 to +125							°C	



Fig.1 Forward Current Derating Curve

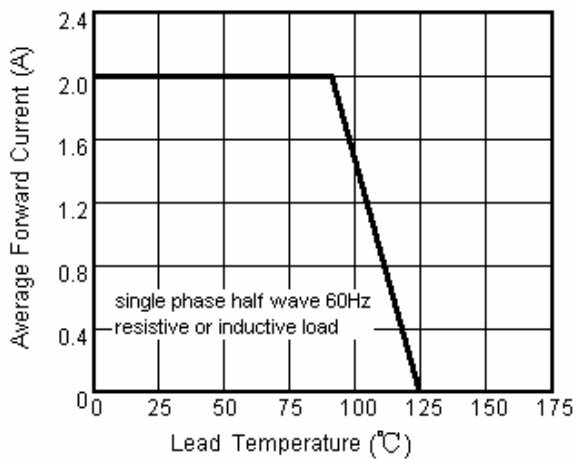


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

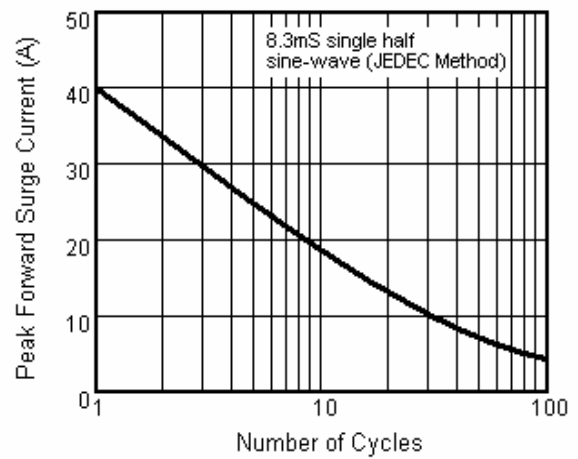


Fig.3 Typical Instantaneous Forward Characteristics

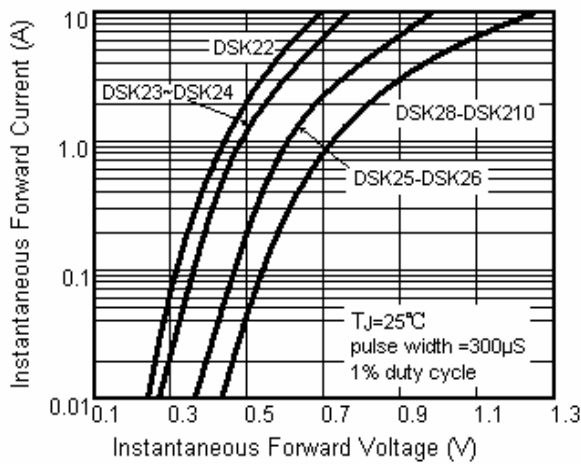


Fig.4 Typical Reverse Characteristics

