DSK12~DSK110

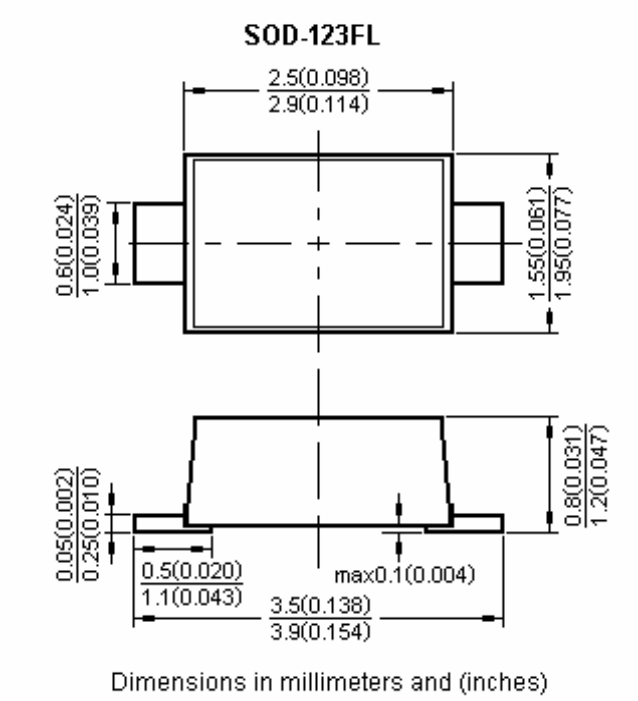
Surface Mount Schottky rectifier

Major Ratings and Characteristics

$I_{F(AV)}$	1.0 A
V_{RRM}	20 V to 100 V
I_{FSM}	25 A
V_F	0.55 V , 0.70 V,0.85V
T_j max.	125 °C

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℃/10 seconds at terminals
- Component in accordance to
  RoHS 2002/95/1 and WEEE 2002/96/EC



Dimensions in millimeters and (inches)

Mechanical Date

- **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

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)

	Symbol	DSK12	DSK13	DSK14	DSK15	DSK16	DSK18	DSK110	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum average forward rectified current	$I_{F(AV)}$	1							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	25							A
Maximum instantaneous forwad voltage at 1.0A	V_F	0.55			0.70		0.85		V
Maximum DC reverse current T_A = 25 ℃	I_R	1.0							mA
at Rated DC blocking voltage T_A = 100℃		10							
Typical junction capacitance at 4.0 V ,1MHz	C_J	110							
Operating junction and storage temperature range	T_J, T_{STG}	– 65 to +125							℃

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

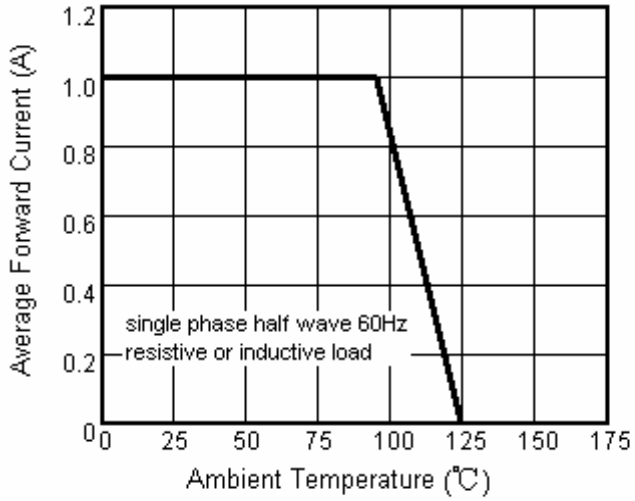


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

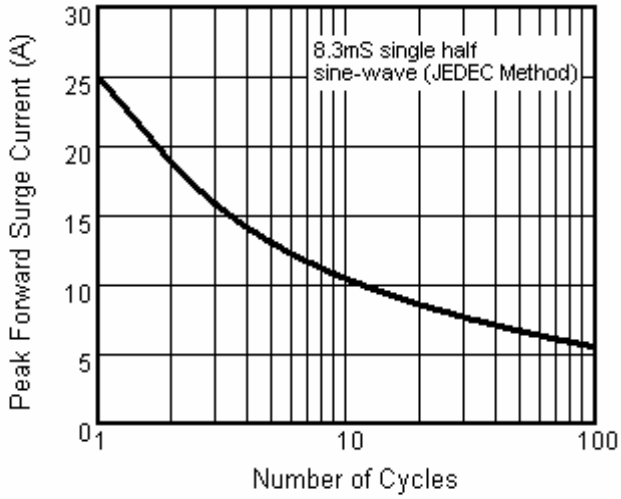


Fig.3 Typical Instantaneous Forward Characteristics

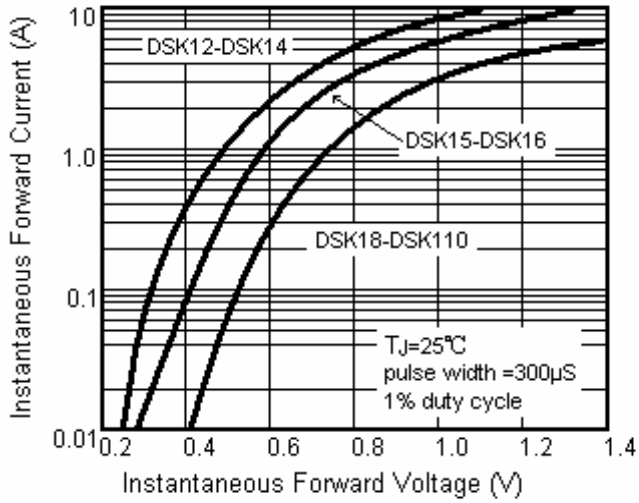


Fig.4 Typical Reverse Characteristics

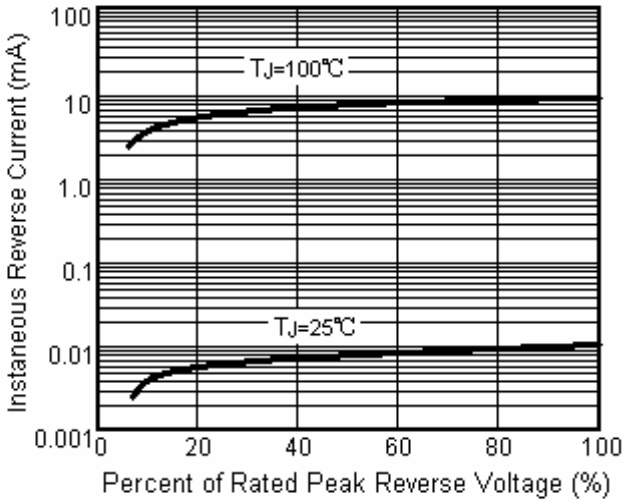


Fig.5 Typical Junction Capacitance