



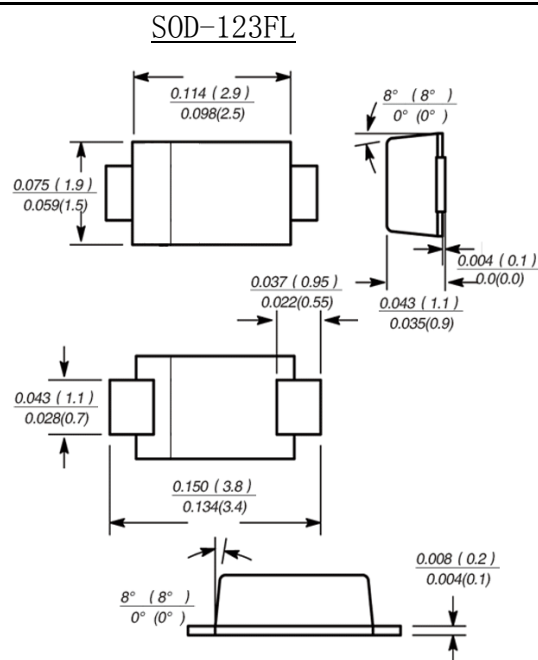
2. 0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
250 C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

- Terminal: : solderable per MIL-STD-750, Method 2026
- Case: : JEDEC SOD-123FL molded plastic body
- Polarity: : Color band denotes cathode end
- Mounting Position: Any



Dimensions in millimetre

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Parameter	Symbol	DSS22 D22	DSS23 D23	DSS24 D24	DSS25 D25	DSS26 D26	DSS27 D27	DSS28 D28	DSS29 D29	DSS210 D210	DSS215 D215	DSS220 D220	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	70	80	90	100	150	200	V	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	105	140	V	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	70	80	90	100	150	200	V	
Maximum Average forward output rectified current	I (AV)	2.0											A	
Peak forward surge current 8.3ms single sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	40											A	
Maximum instantaneous forward voltage @2.0A	V _F	0.6			0.7		0.85						V	
Maximum DC reverse current at TA=25℃ rated DC blocking voltage per leg TA=100℃	I _R	0.5									0.2		mA	
		10					5							
Typical junction capacitance (NOTE 1)	C _J	220			80									pF
Operating junction temperature range	T _J	-65 to +125					-65 to +150							℃
storage temperature range	T _{STG}	-65 to +150											℃	

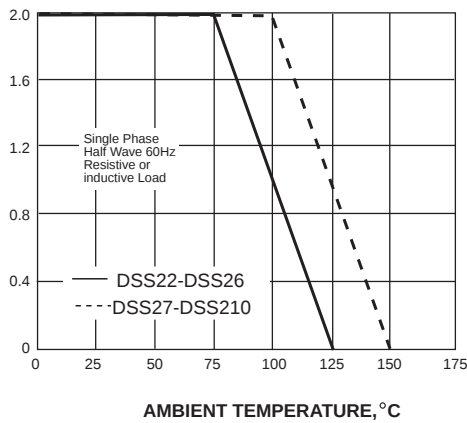
Note: 1. Measured at 1MHZ and applied reverse voltage of 4.0V D.C.



2. 0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT,
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

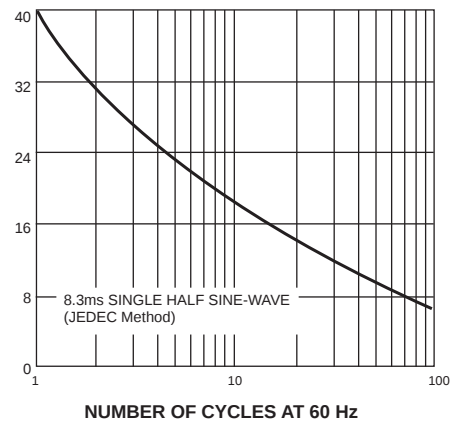
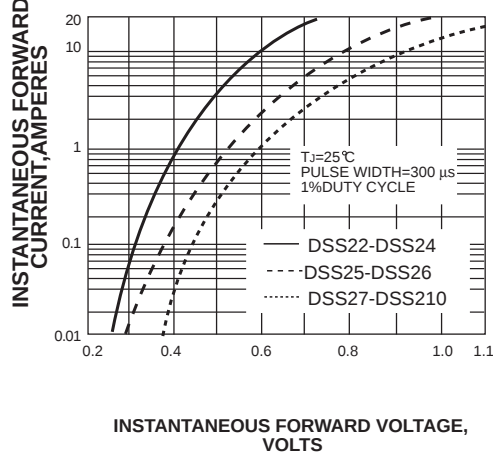


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

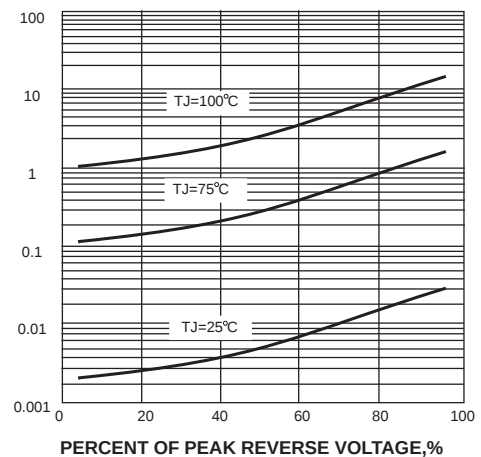


FIG. 5-TYPICAL JUNCTION CAPACITANCE

