



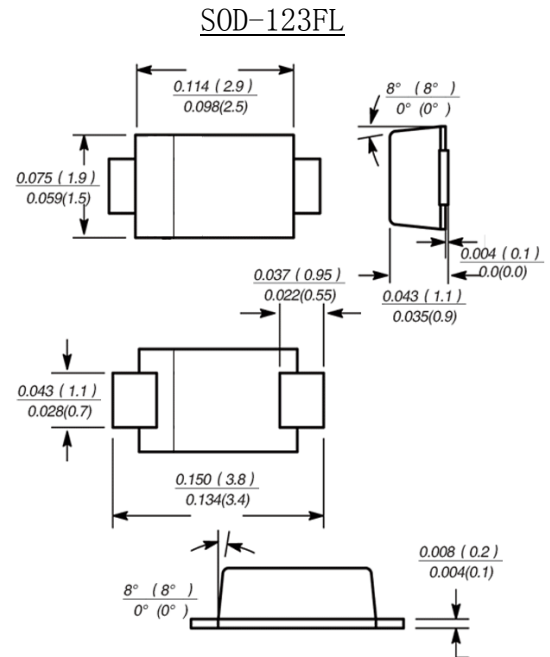
3. 0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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



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%.

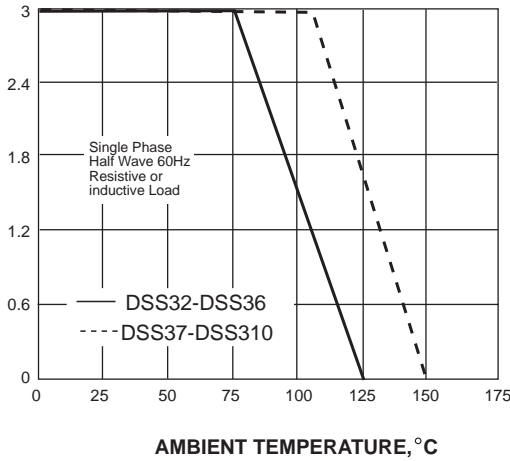
Parameter	Symbol	DSS32 D32	DSS33 D33	DSS34 D34	DSS35 D35	DSS36 D36	DSS37 D37	DSS38 D38	DSS39 D39	DSS310 D310	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	V
Maximum Average forward output rectified current	$I(AV)$	3.0									A
Peak forward surge current 8.3ms single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80									A
Maximum instantaneous forward voltage @3.0A	V_F	0.52	0.55	0.7			0.85			V	
Maximum DC reverse current at TA=25°C rated DC blocking voltage per leg TA=100°C	I_R	0.5								0.2	mA
		20				10					
Operating junction temperature range	T_J	-65 to +125					-65 to +150				°C
storage temperature range	T_{STG}	-65 to +150									°C



3.0A 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

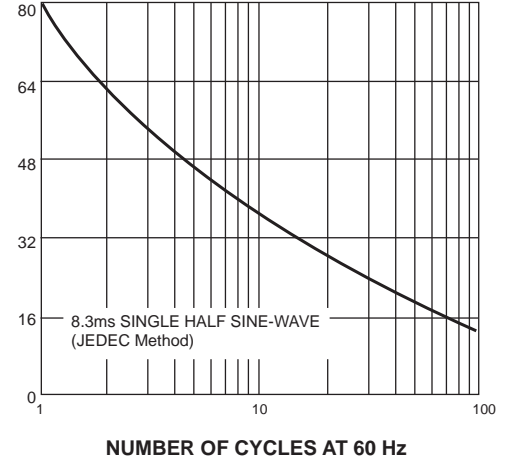


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

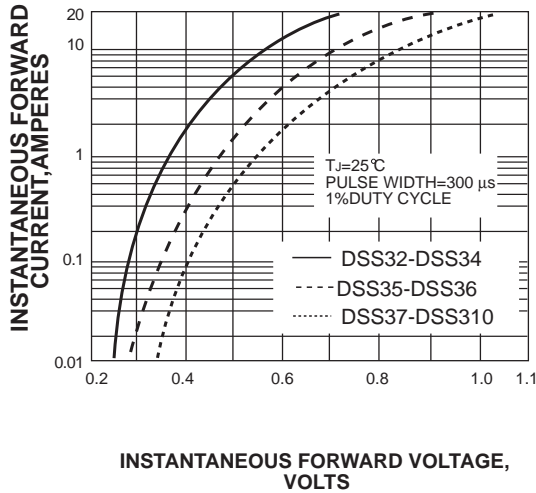


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

