

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## DSS32 THRU DSS310

<b>VOLTAGE RANGE</b>	<b>20 to 100 Volts</b>
<b>CURRENT</b>	<b>3.0 Ampere</b>

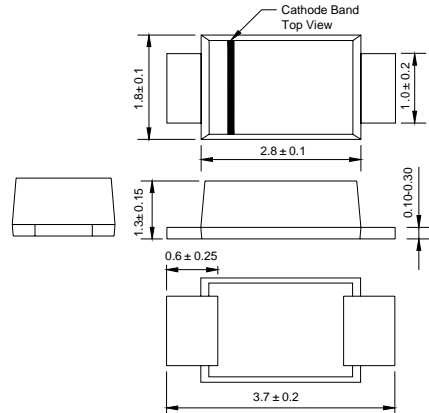
### FEATURES

- 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

- Case: JEDEC SOD-123FL molded plastic body
- Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight : 0.0007 ounce, 0.02 grams

### SOD-123FL



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified.
- Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	DSS32 D32	DSS33 D33	DSS34 D34	DSS35 D35	DSS36 D36	DSS37 D37	DSS38 D38	DSS39 D39	DSS310 D310	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	70	80	90	100	VOLTS	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	49	56	63	70	VOLTS	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	70	80	90	100	VOLTS	
Maximum average forward rectified current	$I_{(AV)}$	3.0									Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80.0									Amps	
Maximum instantaneous forward voltage at 3.0A	$V_F$	0.52	0.55	0.70			0.85			Volts		
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	$I_R$	0.5									mA	
		20.0					10.0					
Operating junction temperature range	$T_J$	-65 to +125					-65 to +150					$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-65 to +150										$^\circ\text{C}$



# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## DSS32 THRU DSS310

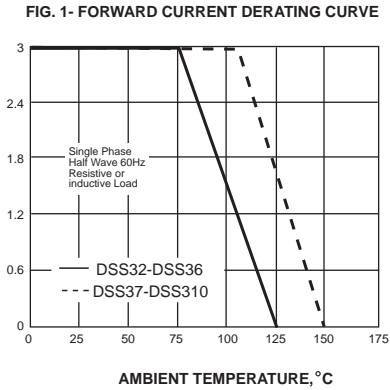
VOLTAGE RANGE

20 to 100 Volts

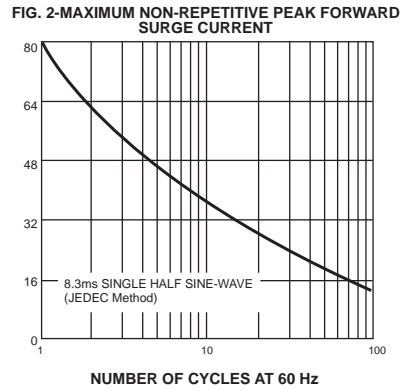
CURRENT

3.0 Ampere

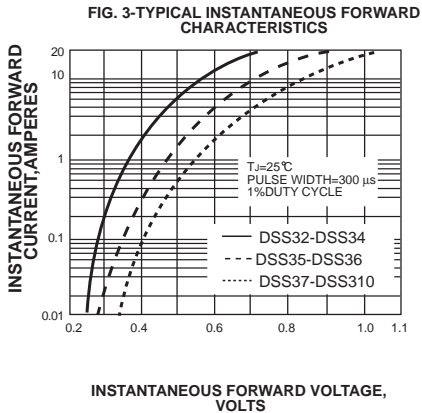
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES



PEAK FORWARD SURGE CURRENT,  
AMPERES



INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

