

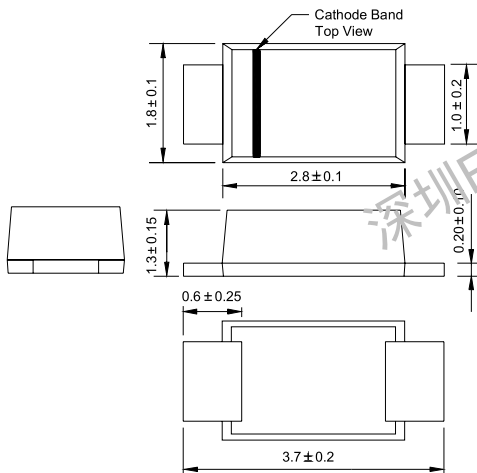
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Formosa MS

DSS32 THRU DSS310

Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Ampere

SOD-123FL



Dimensions in millimeters

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
- ◆ Green compound (halogen & Sb₂O₃ free)

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

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	DSS33	DSS34	DSS35	DSS36	DSS37	DSS38	DSS39	DSS310	UNITS
	MARK	D32	D33	D34	D35	D36	D37	D38	D39	D310	
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}	60.0									Amps
Maximum instantaneous forward voltage at 3.0A	V _F	0.55			0.70			0.85			Volts
Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =100°C	I _R	0.5			10.0			0.1			mA
Typical junction capacitance (NOTE 1)	C _J	220			80						pF
Operating junction temperature range	T _J	-65 to +125			-65 to +150						°C
Storage temperature range	T _{STG}	-65 to +150									°C

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

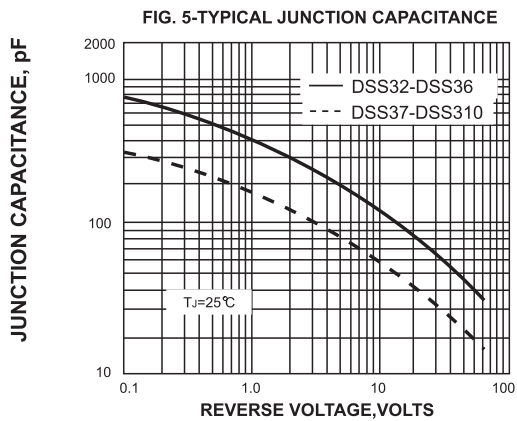
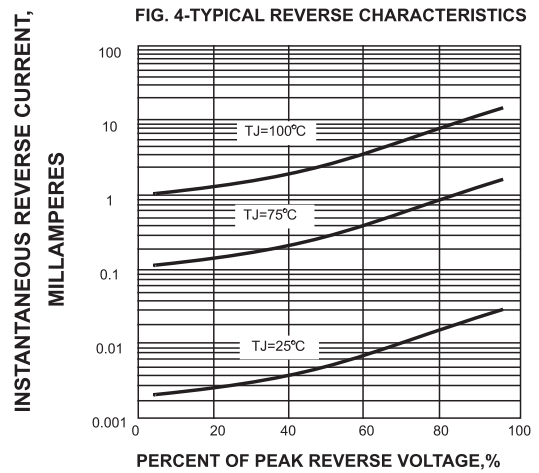
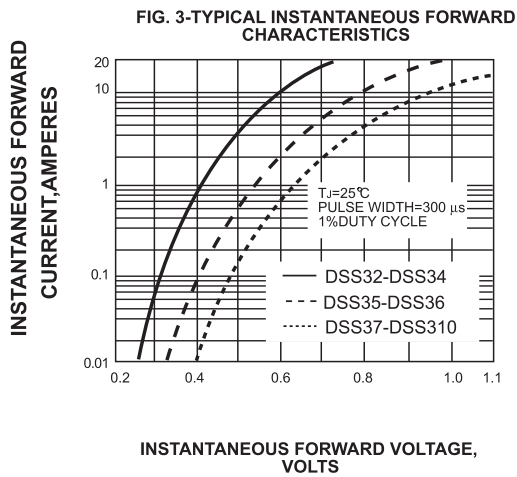
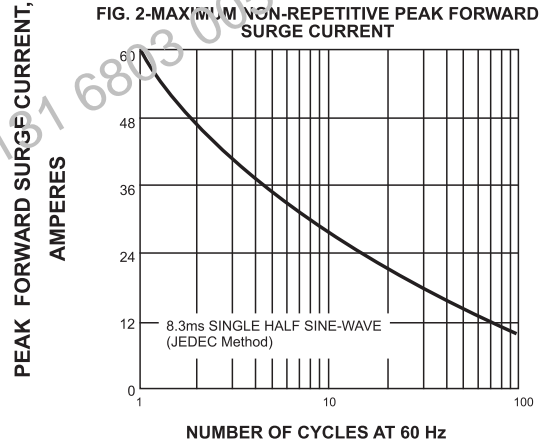
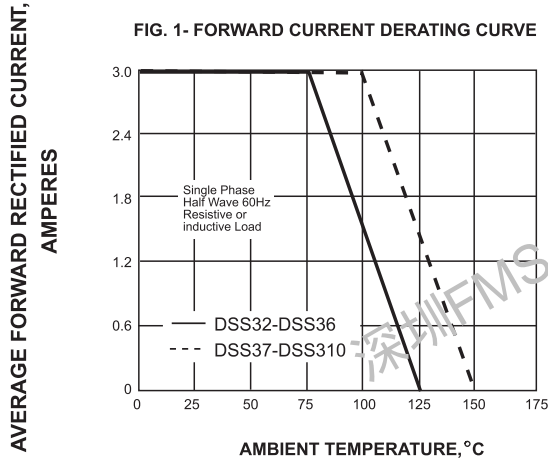


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RATINGS AND CHARACTERISTIC CURVES DSS32 THRU DSS310

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