

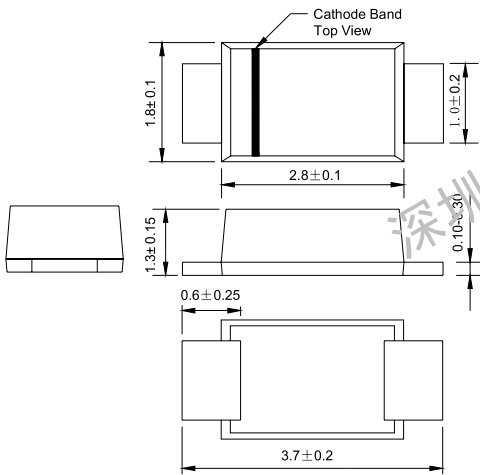
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Formosa MS

DSS22 THRU DSS210

Reverse Voltage - 20 to 100 Volts Forward Current - 2.0 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	DSS22 D22	DSS23 D23	DSS24 D24	DSS25 D25	DSS26 D26	DSS27 D27	DSS28 D28	DSS29 D29	DSS210 D210	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 <sub(av)< sub=""></sub(av)<>	2.0									Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40.0									Amps	
Maximum instantaneous forward voltage at 2.0A	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					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.

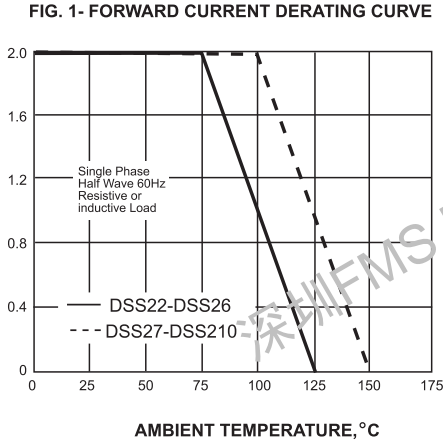


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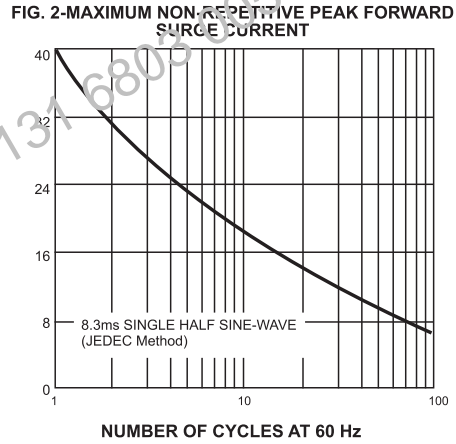
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
RATINGS AND CHARACTERISTIC CURVES DSS22 THRU DSS210

Formosa MS

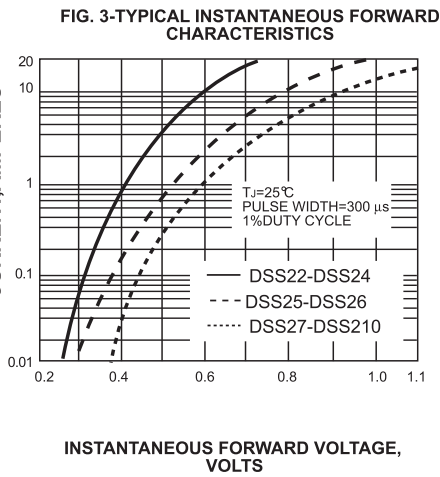
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



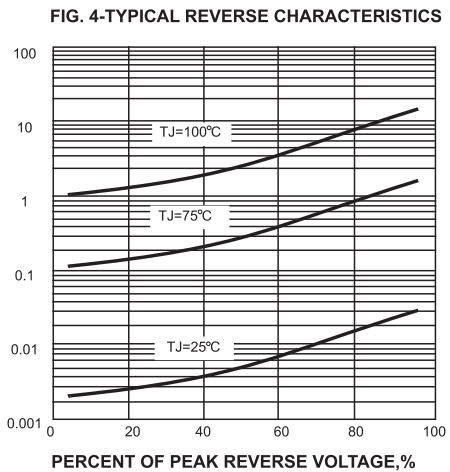
PEAK FORWARD SURGE CURRENT,
AMPERES



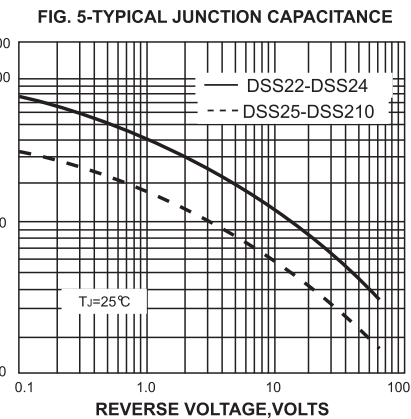
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



JUNCTION CAPACITANCE, pF



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