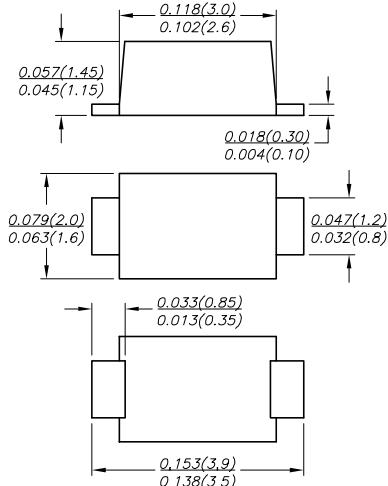


DSS215 THRU DSS220

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current - 2.0 Ampere

SOD-123FL



Dimensions in inches and (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

MECHANICAL DATA

Case: 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

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%.

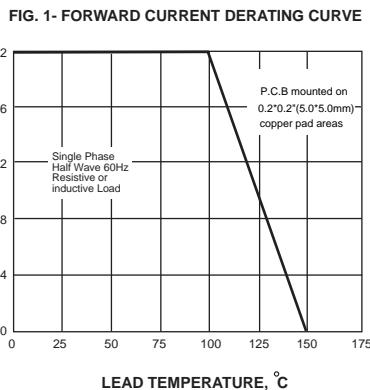
	SYMBOLS	DSS215 D215	DSS220 D220	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	150	200	V
Maximum RMS voltage	V _{RMS}	105	140	V
Maximum DC blocking voltage	V _{DC}	150	200	V
Maximum average forward rectified current	I _(AV)	2.0		A
Peak forward surge current				
8.3ms single half sine-wave superimposed on rated load	I _{FSM}	40.0		A
Maximum instantaneous forward voltage at 2.0A	V _F	0.95		V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R	0.1	2.0	mA
Typical junction capacitance (NOTE 1)	C _J	80		pF
Typical thermal resistance (NOTE 2)	R _{θJA}	95		°C/W
Operating junction temperature range	T _J	-55 to +150		°C
Storage temperature range	T _{STG}	-55 to +150		°C

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

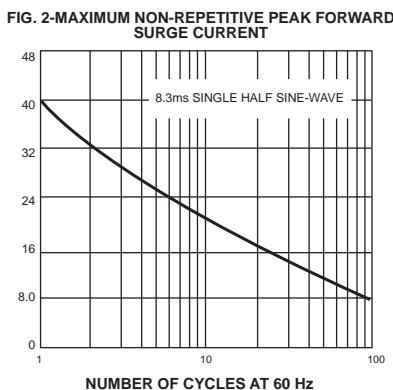
2. PCB mounted on 0.2*0.2" (5.0*5.0mm) copper pad area.

RATINGS AND CHARACTERISTIC CURVES DSS215 THRU DSS220

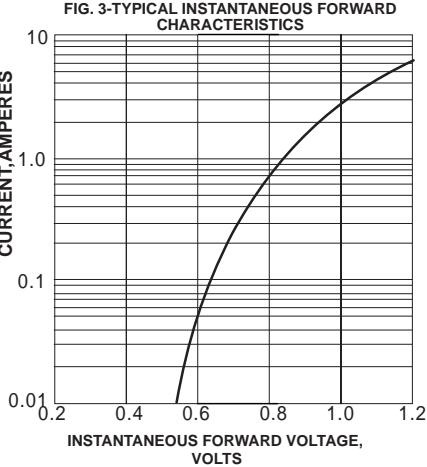
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



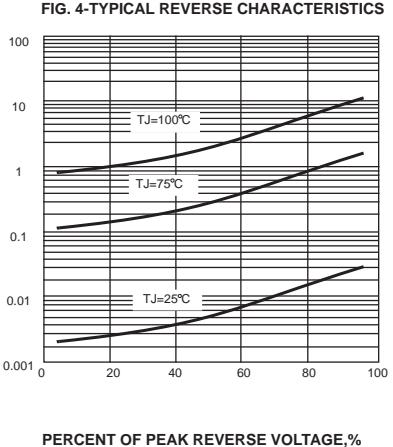
PEAK FORWARD SURGE CURRENT,
AMPERES



INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF

