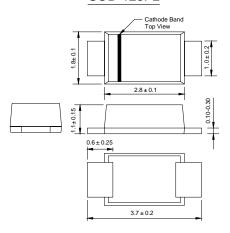


DSL12 THRU DSL110

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 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: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: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%.

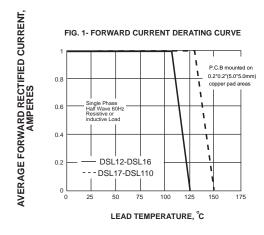
MDD Catalog Number	SYMBOLS	DSL12 D12	DSL13 D13	DSL14 D14	DSL15 D15	DSL16 D16	DSL17 D17	DSL18 D18	DSL19 D19	DSL110 D110	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	70	80	90	100	V
Maximum RMS voltage	VRMS	14	21	28	35	42	49	56	63	70	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	70	80	90	100	V
Maximum average forward rectified current	l(AV)	1.0									Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	İFSM	25.0								А	
Maximum instantaneous forward voltage at 1.0A	VF	0.45			0.5	5	0.7				V
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lr	0.5 0.2 10.0 5.0								mA	
Typical junction capacitance (NOTE 1)	Сл	110					80				pF
Typical thermal resistance (NOTE 2)	Reja	95									°C/W
Operating junction temperature range	TJ	-55 to +125					-55 to +150			°C	
Storage temperature range	Тѕтс	-55 to +150									°C

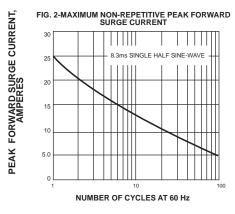
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

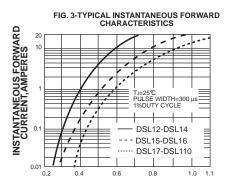
2.PCB mounted on 0.2*0.2" (5.0*5.0mm) coppeer pad area.

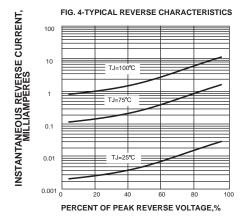


RATINGS AND CHARACTERISTIC CURVES DSL12 THRU DSL110

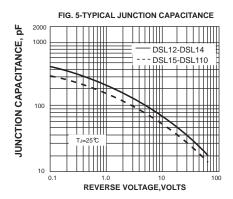








INSTANTANEOUS FORWARD VOLTAGE, VOLTS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

