

SS12-ML THRU SS110-ML

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Ampere

0.067 (1.70) 0.043 (1.10) 0.150(3.80) 0.173(4.40) 0.150(3.80) 0.063(1.60)

Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body **Terminals**: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

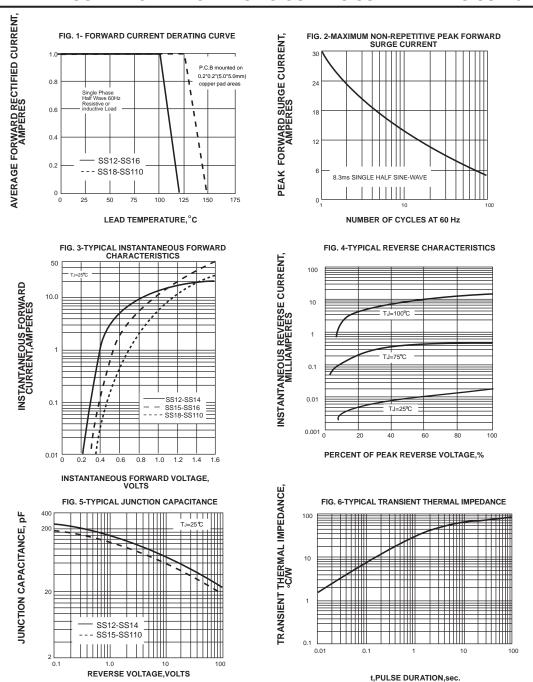
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SS12	SS13	SS14	SS15	SS16	SS18	SS110	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	V
Maximum RMS voltage	Vrms	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	V
Maximum average forward rectified current	l(AV)	1.0							А
at TL(see fig.1)	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	30.0						Α	
rated load									
Maximum instantaneous forward voltage at 1.0A	VF	0.45	45 0.55 0.70		70	0.85		V	
Maximum DC reverse current Ta=25℃		0.5						mA	
at rated DC blocking voltage Ta=100℃	l _R		10.0 5.0					.0	- 111/4
Typical junction capacitance (NOTE 1)	Cı	110 90			90		pF		
Typical thermal resistance (NOTE 2)	Reja	70.0						°C/W	
Operating junction temperature range	TJ,	-55 to +125 -55 to +15				o +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.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES SS12-ML THRU SS110-ML





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