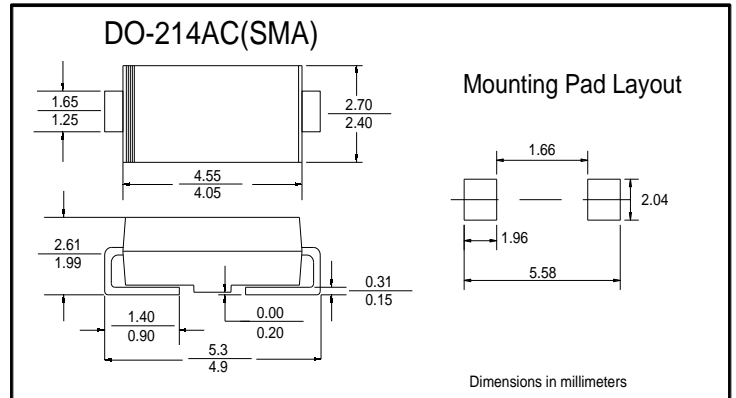


**REVERSE VOLTGE 20V~200V**

**FORWARD CURRENT 1.0AMP Surface Mount Schottky Barrier Rectifier**

**FEATURES**

- \* For surface mounted application
- \* Metal to silicon rectifier,majority carrier conduction
- \* Low forward voltage drop
- \* Easy pick and place
- \* High surge current capability
- \* Plastic materal used carriers Underwriters Laboratory Classification 94V-O
- \* Epitaxial construction
- \* High temperature soldering:  
250°C/ 10 seconds at terminals



**MECHANICAL DATA**

- \* Case: molded plastic
- \* Terminals: Solder plated
- \* Polarity: Indicated by cathode band
- \* Packaging: 12mm tape EIA STD RS- 481
- \* Weight: 0.064gram

**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	SS115	SS120	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at $T_L$ (see fig.1)	$I_{(AV)}$	1.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30.0									Amps
Maximum instantaneous forward voltage at 1.0A	$V_F$	0.45	0.55	0.70		0.85					Volts
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	$I_R$	0.5			6.0		5.0			mA	
Typical junction capacitance (NOTE 1)	$C_J$	110			90						pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	88.0									$^\circ C/W$
Operating junction temperature range	$T_J$	-65 to +125			-65 to +150						$^\circ C$
Storage temperature range	$T_{STG}$	-65 to +150									$^\circ C$

**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 (Ta = 25°C unless otherwise noted)

