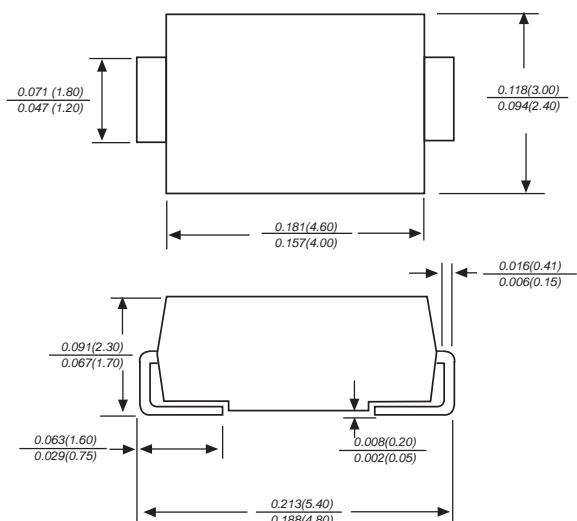


DO-214AC

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

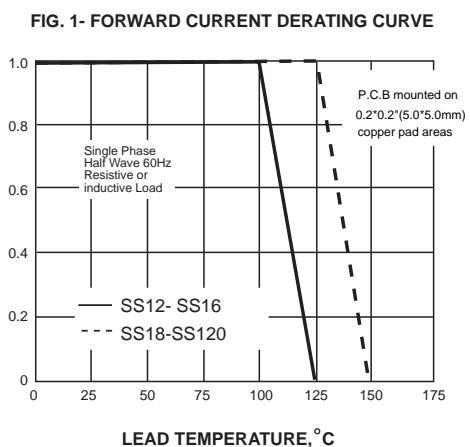
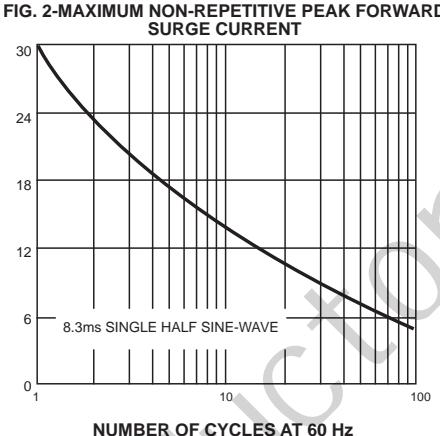
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

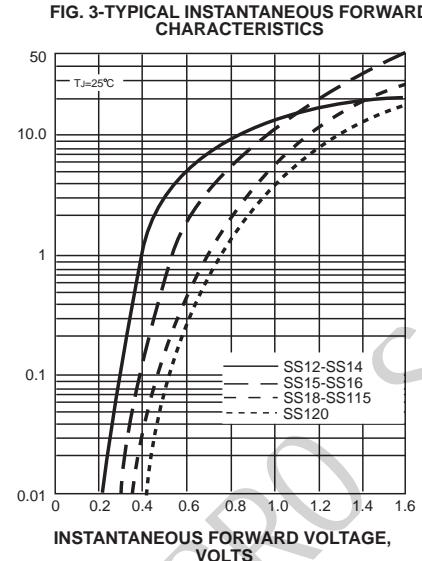
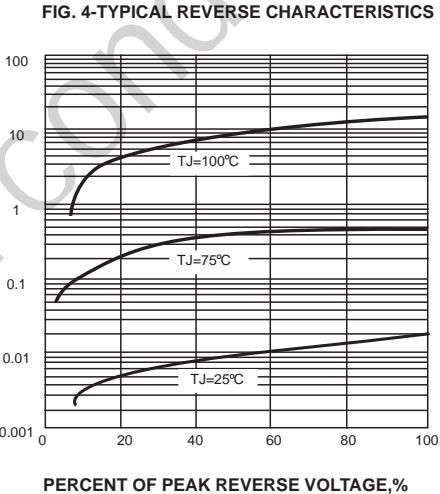
	SYMBOLS	SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS115	SS120	UNITS		
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V		
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V		
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V		
Maximum average forward rectified current at T_L (see fig.1)	$I_{(AV)}$	1.0								A			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30.0								A			
Maximum instantaneous forward voltage at 1.0A	V_F	0.45	0.55	0.70	0.85			0.95	V				
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	I_R	0.5			0.1			mA					
Typical junction capacitance (NOTE 1)	C_J	110		90			pF						
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0								$^\circ C/W$			
Operating junction temperature range	T_J	-55 to +125			-55 to +150			$^\circ C$					
Storage temperature range	T_{STG}	-55 to +150								$^\circ C$			

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

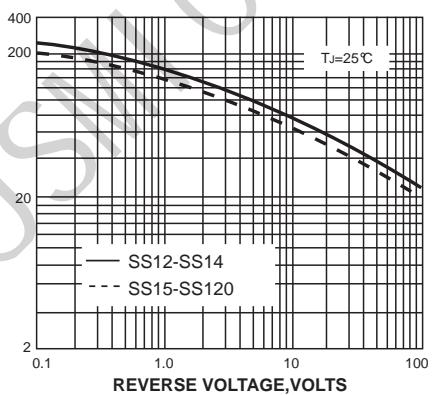
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

AVERAGE FORWARD RECTIFIED CURRENT,
 AMPERES

 PEAK FORWARD SURGE CURRENT,
 AMPERES


INSTANTANEOUS FORWARD CURRENT,AMPERES


 INSTANTANEOUS REVERSE CURRENT,
 MILLIAMPERES


JUNCTION CAPACITANCE, pF


 TRANSIENT THERMAL IMPEDANCE,
 °C/W
