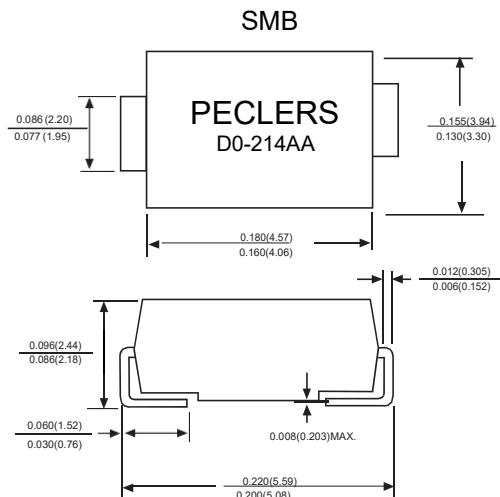


Reverse Voltage - 20 to 200 Volts

Forward Current - 3.0 Amperes



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:
 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body

Terminals: leads solderable per MIL-STD-750,
 Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 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	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	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)	3.0								Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0								Amps	
Maximum instantaneous forward voltage at 3.0A	V _F	0.45	0.55	0.70	0.85					Volts	
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5								mA	
Typical junction capacitance (NOTE 1)	C _J	500								pF	
Typical thermal resistance (NOTE 2)	R _{QJA}	55.0								°C/W	
Operating junction temperature range	T _J	-65 to +125			-65 to +150					°C	
Storage temperature range	T _{STG}	-65 to +150								°C	

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

2.P.C.B. mounted with 0.4x0.4"(10x10mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS320

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

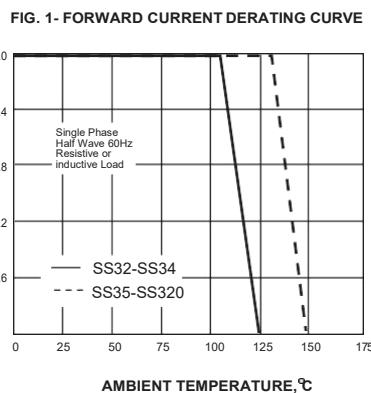
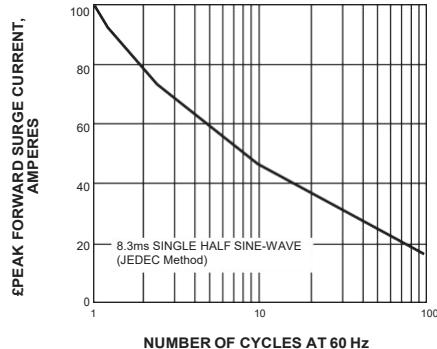


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



INSTANTANEOUS FORWARD CURRENT, AMPERES

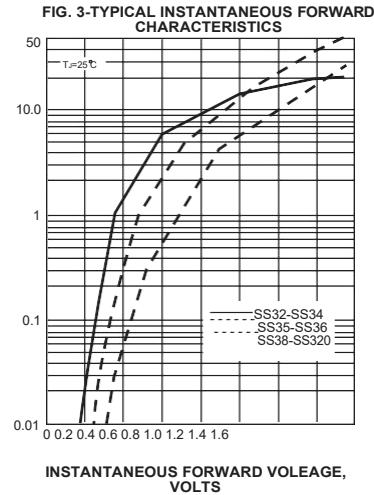
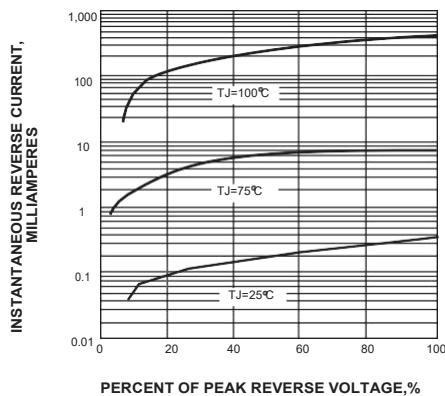
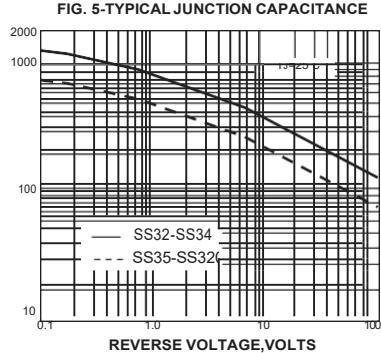


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

