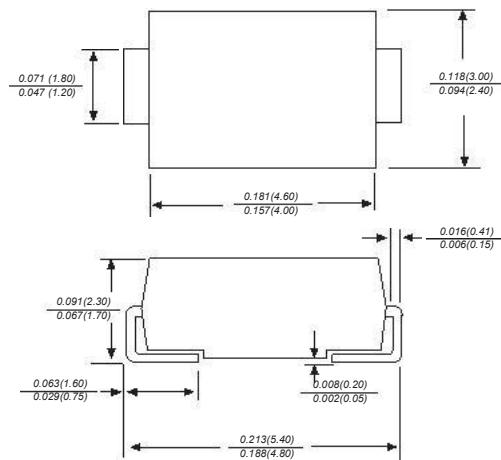


SS32 THRU SS310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
 Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Amperes

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	SS32	SS33	SS34	SS35	SS36	SS38	SS310	UNITS		
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V		
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	V		
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V		
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0						A			
Peak forward surge current	I _{FSM}	70.0						A			
8.3ms single half sine-wave superimposed on rated load											
Maximum instantaneous forward voltage at 3.0A	V _F	0.55		0.70		0.85		A			
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5			0.1			mA			
		20			10						
Typical junction capacitance (NOTE 1)	C _J	500		300		pF					
Typical thermal resistance (NOTE 2)	R _{θJA}	75.0							°C/W		
Operating junction temperature range	T _J	-55 to +125			-55 to +150				°C		
Storage temperature range	T _{STG}	-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 SS32 THRU SS310

FIG. 1- FORWARD CURRENT DERATING CURVE

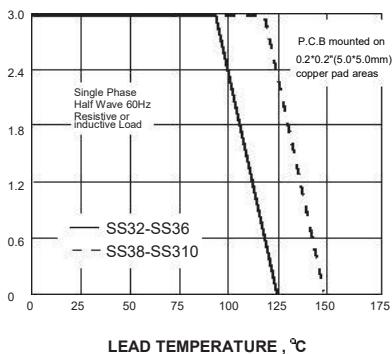


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

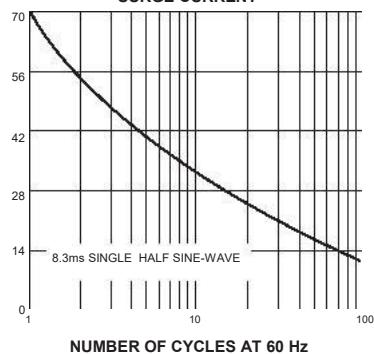


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

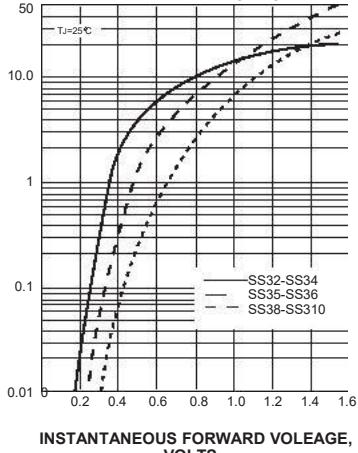


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

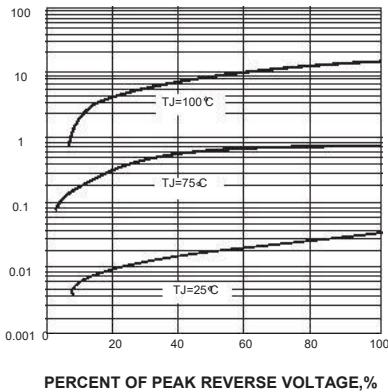


FIG. 5-TYPICAL JUNCTION CAPACITANCE

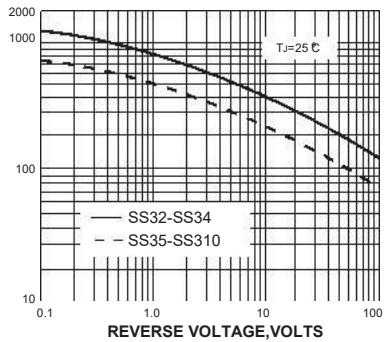


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

