

3A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

The image shows two views of the SS32B Schottky barrier rectifier. The top view shows the component with a black body and a silver cathode pad on the right. Dimension lines indicate: A (total width), B (body width), C (cathode pad width), D (cathode pad height), E (body height), and F (cathode pad thickness). A blue arrow points to the right, indicating the direction of current flow.

	Value Inch[mm]	
Dim.	Min.	Max.
A	0.197[5.00]	0.220[5.59]
B	0.160[4.06]	0.180[4.57]
C	0.130[3.30]	0.155[3.94]
D	0.079[2.00]	0.097[2.47]
E	0.030[0.76]	0.060[1.52]
F	0.075[1.91]	0.086[2.18]

The image shows a side view of the SS32B Schottky barrier rectifier. Dimension lines indicate: A (total width), B (body width), C (cathode pad width), D (cathode pad height), E (body height), and F (cathode pad thickness).

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW V_F
3. MAJORITY CARRIER CONDUCTION
4. BUILT-IN STRAIN RELIEF
5. LOW PROFILE
6. CASE: MOLDED PLASTIC, DO-214AA (SMB)
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY: INDICATED BY CATHODE BAND
9. WEIGHT 0.093 GRAMS
10. RoHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +125°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT (SEE FIG.1)	I_O	3.0	A
PEAK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE	I_{FSM}	80	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	C_j	300	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JA}$	55	°C/W
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JL}$	17	°C/W
MAXIMUM REVERSE CURRENT AT 25°C	I_R	1000	uA

NOTES: 1. PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE

2. P.C.B. MOUNTED 0.55"×0.55 "(14×14 mm) 0.013mm THICK COPPER PAD AREAS

3. MAXIMUM FORWARD VOLTAGE AT I_O

PART NUMBER	MAX. RECURRENT PEAK REVERSE VOLTAGE V_{RRM} (V)	MAX. RMS VOLTAGE V_{RMS} (V)	MAX. DC BLOCKING VOLTAGE V_{DC} (V)	MAX. FORWARD VOLTAGE V_F (V)	MARKING
SS32B	20	14	20	0.50	SS32B
SS33B	30	21	30	0.50	SS33B
SS34B	40	28	40	0.50	SS34B
SS35B	50	35	50	0.70	SS35B
SS36B	60	42	60	0.70	SS36B
SS38B	80	56	80	0.85	SS38B
SS310B	100	70	100	0.85	SS310B

RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

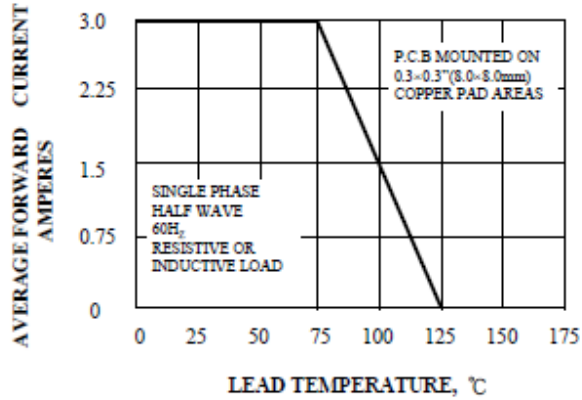


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

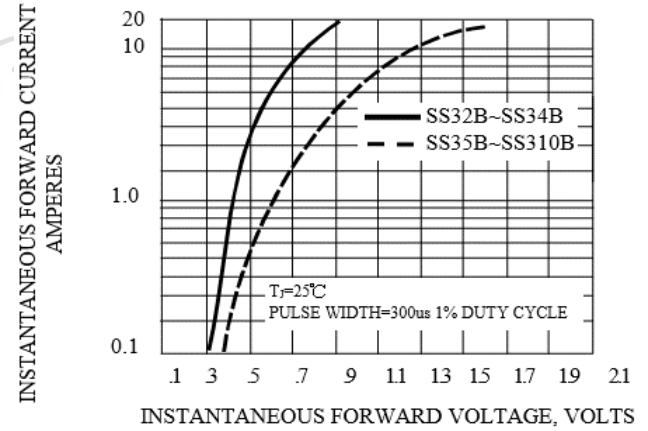


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

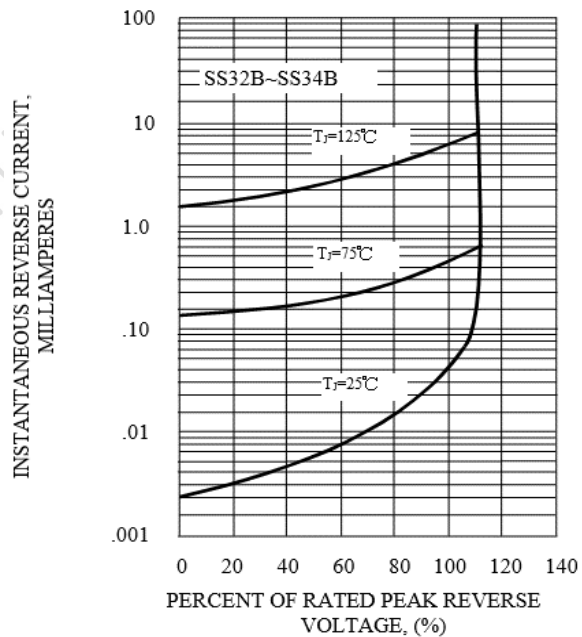


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

