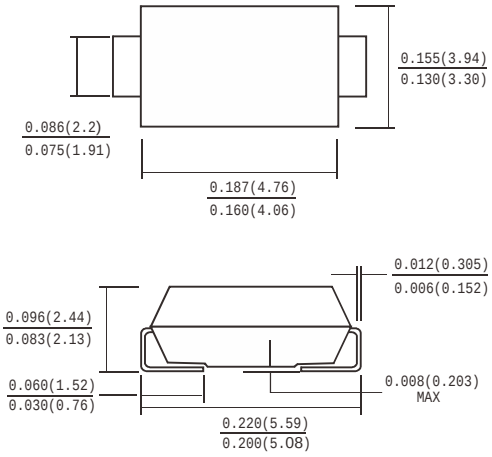
SS32B THRU SS3200B

Surface Mount Schottky Rectifiers

Features

- Low profile package
- Ideal for automated placement
- Fast switching for high efficiency
- High forward surge capability
- High temperature soldering:
  260℃/10 seconds at terminals
- Component in accordance to
  RoHS 2002/95/1 and WEEE 2002/96/EC

SMB(DO-214AA)



Dimensions in inches and (millimeters)

Mechanical Date

- **Case:** JEDEC DO-214AA molded plastic body
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

Maximum Ratings and Electrical Characteristics Rating at 25℃

ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	SYMBOL	SS 32B	SS 34B	SS 345B	SS 36B	SS 38B	SS 310B	SS 3150B	SS 3200B	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	45	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	28	31	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	45	60	80	100	150	200	V
Average Rectified Output Current @T_L =100℃		3.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80								A
Forward Voltage @IF=3.0A (Note 1)	V_{FM}	0.55			0.7	0.85		0.92		V
Peak Reverse Current @T_A =25℃	I_R	0.1				0.05				mA
At Rated DC Blocking Voltage @T_A =100℃		10				5				
I^2t Rating for fusing (t <8.3ms)	I^2t	26.56								A^2s
Typical Junction Capacitance (Note 2)	C_J	12								pF
Typical Thermal Resistance per leg (Note3)	$R_{\theta JA}$	70								℃/W
Operating Temperature Range	T_J	-55 to+150								℃
Storage Temperature Range	T_{STG}	-55 to +150								℃

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
3.Thermal Resistance from Junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

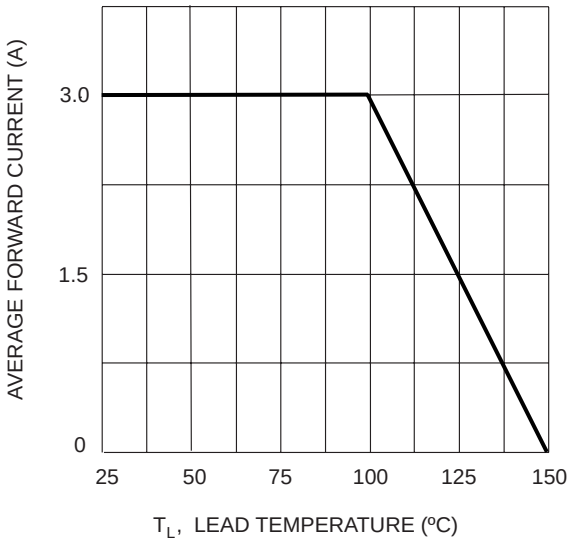


Fig. 2 Typ. Forward Characteristics

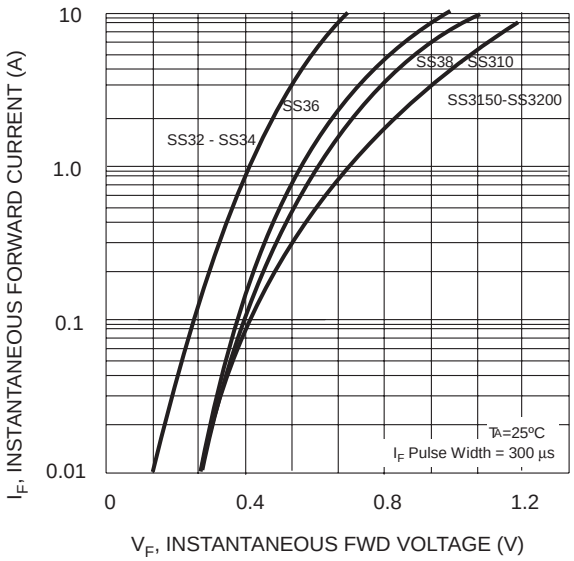


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

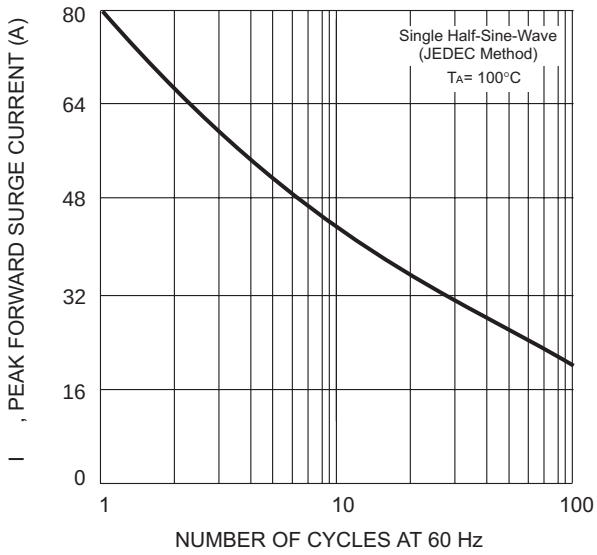


FIG.4TYPICALREVERSE CHRACTERISTIC

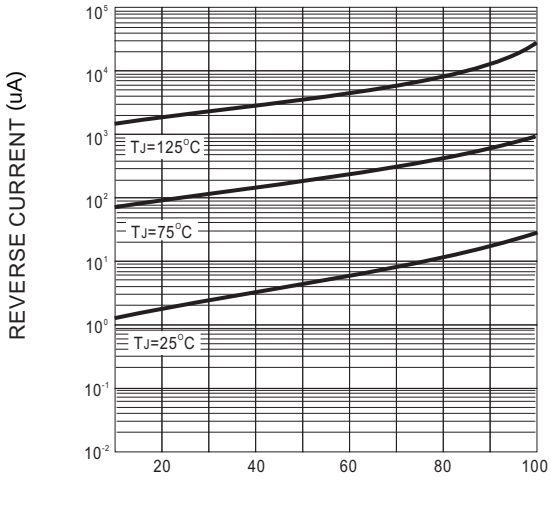


FIG.5 MOUNTING PAD LAYOUT