



PFC Device Corporation

SS36B

3A 60V Schottky Rectifier

Major ratings and characteristics

Characteristics	Values	Units
$I_{F(AV)}$ Rectangular Waveform	3	A
V_{RRM}	60	V
T_J Operating Junction Temperature	-65 to +125	°C

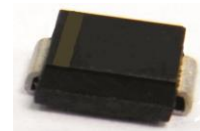
Features

- Low Forward Voltage Drop
- Reliable High Temperature Operation
- Softest, fast switching capability
- 125°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant

Typical Applications

Device optimized for low forward voltage drop to maximize efficiency in Power Supply applications

SS36B



DO-214AA (SMB)



1. Characteristics

Maximum Ratings Characteristics

($T_A = 25^{\circ}\text{C}$ unless otherwise specified)

Parameter		Symbol	Values	Units
DC Blocking Voltage		V_{RM}	60	Volts
Working Peak Reverse Voltage		V_{RWM}		
Peak Repetitive Reverse Voltage		V_{RRM}		
Maximum RMS Voltage		V_{RMS}	42	Volts
Average Rectified Forward Current Per device		I_o	3	Amps
Peak Forward Surge Current - 1/2 60hz		I_{FSM}	80	Amps
Maximum Instantaneous Forward Voltage at 3A	$T_J = 25^{\circ}\text{C}$	V_F^*	0.70	Volts
Maximum Instantaneous Reverse Current	$T_J = 25^{\circ}\text{C}$	I_R^*	1000	μA
Typical Thermal Resistance		$R\theta_{JL}$	20	$^{\circ}\text{C} / \text{W}$
f=1MHz and applied 4V DC reverse voltage		C_J	250	pF
Maximum Rate of Voltage Change (at Rated VR)		dv/dt	10000	V/ μs
Operating Junction Temperature		T_J	- 65 to +125	$^{\circ}\text{C}$
Storage Junction Temperature		T_{STG}	- 65 to +150	

* Pulse width < 300 μs , Duty cycle < 2%



2. Characteristics Curves

Ratings and Characteristics Curves

($T_A = 25^{\circ}\text{C}$ unless otherwise specified)

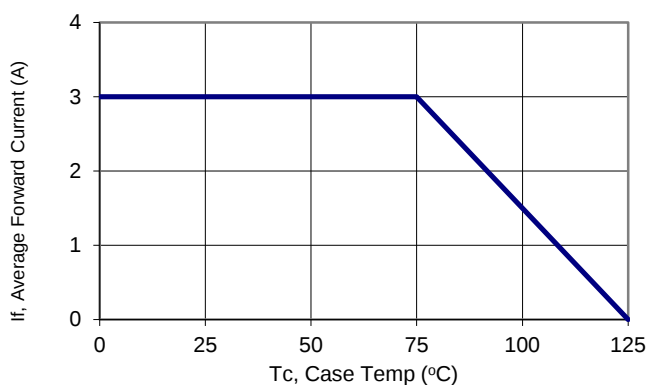


Figure 1: Current Derating, Case

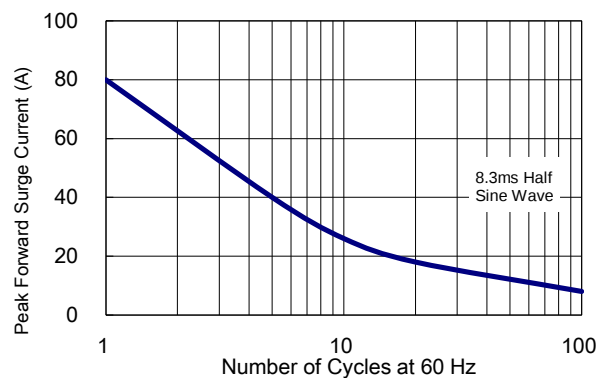


Figure 2: Maximum Repetitive Surge Current

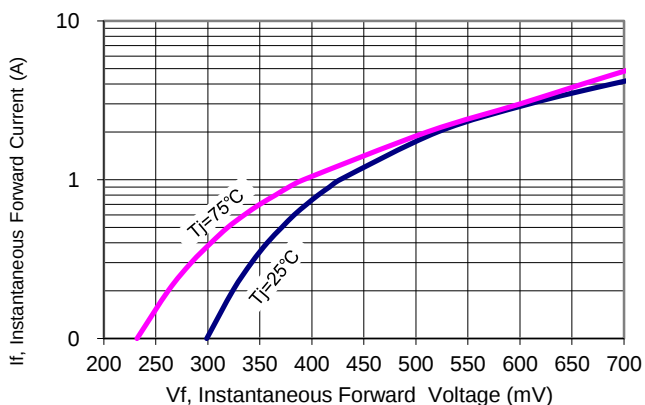


Figure 3: Typical Forward Voltage

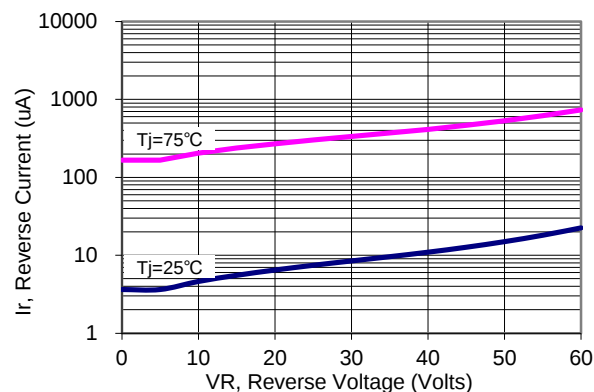


Figure 4: Typical Reverse Current

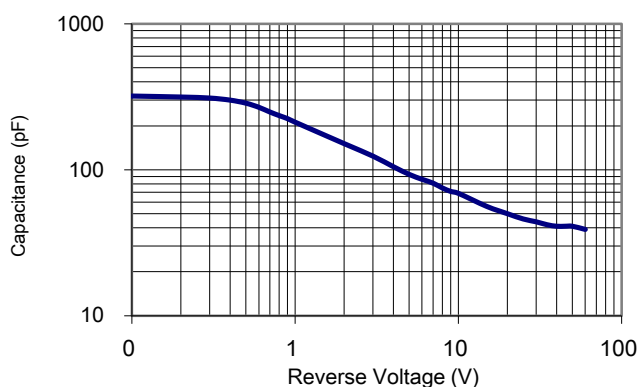


Figure 5: Typical Junction Capacitance



3. Marking information

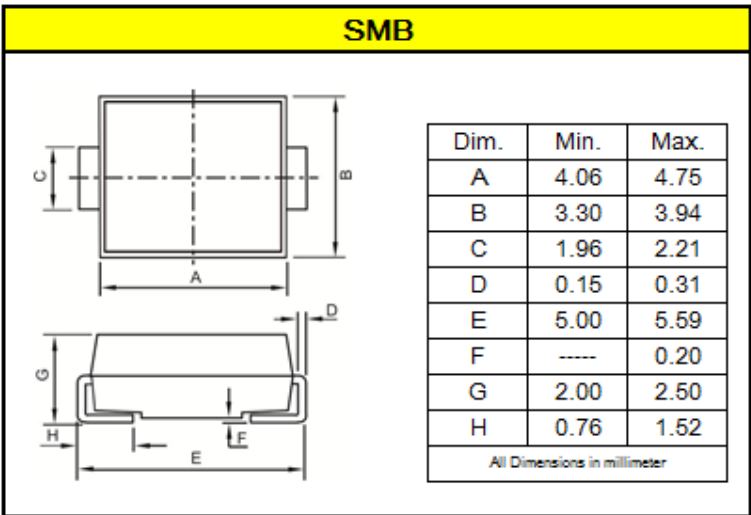
Top Marking Rule



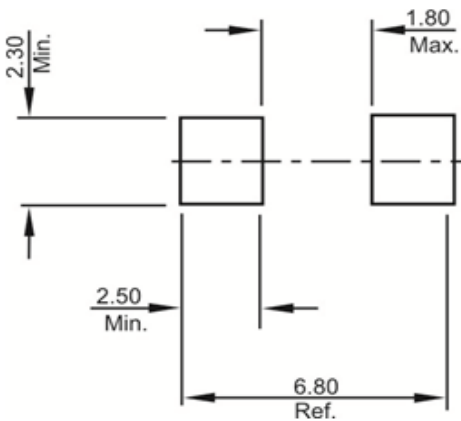
SS36B= Product Type Marking Code

4. Package information

Suggested Package Outline Dimensions millimeters

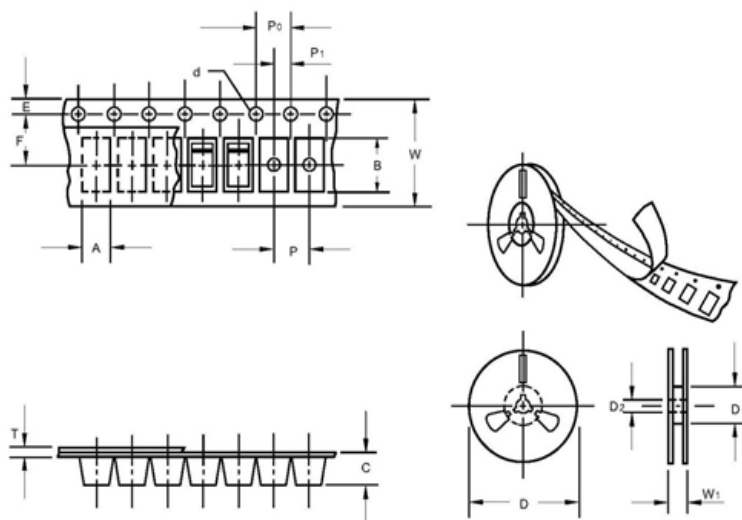


Mounting pad Outline Dimensions millimeters



5. Packing and Ordering information

Packing information millimeters



Item	Symbol	Dimension
Carrier width	A	3.77±0.10
Carrier length	B	5.7±0.10
Carrier depth	C	2.45±0.10
Sprocket hole	d	1.55±0.10
Reel outside diameter	D	330.0±1.0
Reel inner diameter	D1	75±1.0
Feed hole diameter	D2	13.5±1.0
Stocket hole position	E	1.75±0.10
Punch hole position	F	5.5±0.05
Punch hole pitch	P	8.0±0.10
Sprocket hole pitch	P0	4.0±0.10
Embossment center	P1	2.0±0.10
Total tape thickness	T	0.25±0.10
Tape width	W	12.0±0.15
Reel width	W1	18.1±1.5

Ordering information

Part Number	Package	Base Quantity	Delivery mode
SS36B	DO-214AA (SMB)	3000	13" diameter plastic tape and reel

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Mechanical

- Molder Plastic: UL Flammability Classification Rating 94V-0
- Device Weight : 0.003 ounces (0.093grams) - DO-214AA(SMB)

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