

SS10100B

Features

- The plastic package carries UL Flammability Classification 94V-0
- For surface mounted applications
- 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 Characteristics

- Case: SMB(DO-214AA) package molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Absolute Maximum Ratings and Electrical Parameters (TA=25°C unless otherwise specified)

PARAMETER	SYMBOL	SS10100B	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	100	V	
Maximum RMS voltage	V_{RMS}	70	V	
Maximum DC blocking voltage	V_{DC}	100	V	
Maximum average forward rectified current	I_{AV}	10	A	
Peak forward surge current ^(NOTE1)	I_{FSM}	180	A	
Maximum instantaneous forward voltage at 10 A	V_F	0.90	V	
Maximum DC reverse current at rated DC blocking voltage	$T_A=25\text{ }^\circ\text{C}$	I_R	20	uA
	$T_A=100\text{ }^\circ\text{C}$	I_{RT}	2000	uA
Typical junction capacitance ^(NOTE2)	C_J		pF	
Typical Thermal Resistance Junction to Ambient ^(NOTE3)	$R_{\theta JA}$	85	°C/W	
Typical Thermal Resistance Junction to Lead ^(NOTE3)	$R_{\theta JL}$	28	°C/W	
Operating Temperature Range	T_J	-55 to 150	°C	
Storage Temperature Range	T_{STG}	-55 to 150	°C	

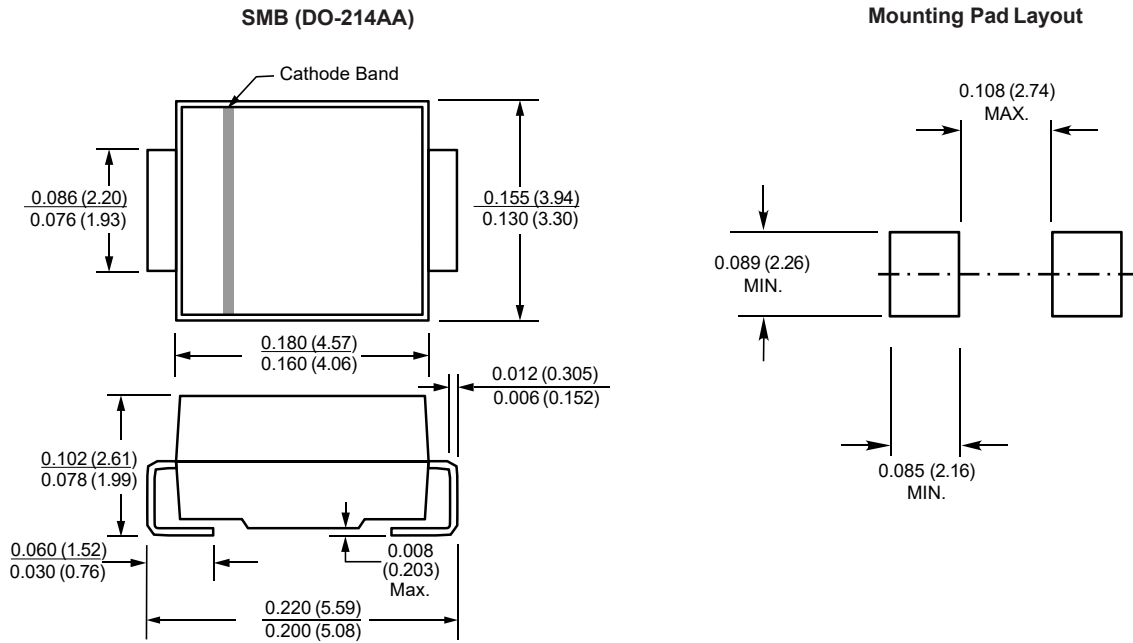
Note1: 8.3ms single half sine-wave superimposed on rated load

Note2: Measured at 1MHz and applied reverse voltage of 4.0V DC.

Note3: PCB. mounted with 5x5mm copper pad areas

SS10100B

Package Outline Dimensions in inches (millimeters)



Part Marking System



PDW:CompanyLogo
XX:Marking Code

Cathode Band
(for uni-directional products only)

Summary of Packing Options

Package	Packing Description	Packing Quantity
SMB	Tape/Reel, 13" reel	3000