

SS510LB

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	SS510LB	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}	5	A
Peak forward surge current ^(NOTE1)		I_{FSM}	120	A
Maximum instantaneous forward voltage at 5 A		V_F	0.65	V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^\circ\text{C}$	I_R	200	uA
	$T_A=100^\circ\text{C}$	I_{RT}	20000	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

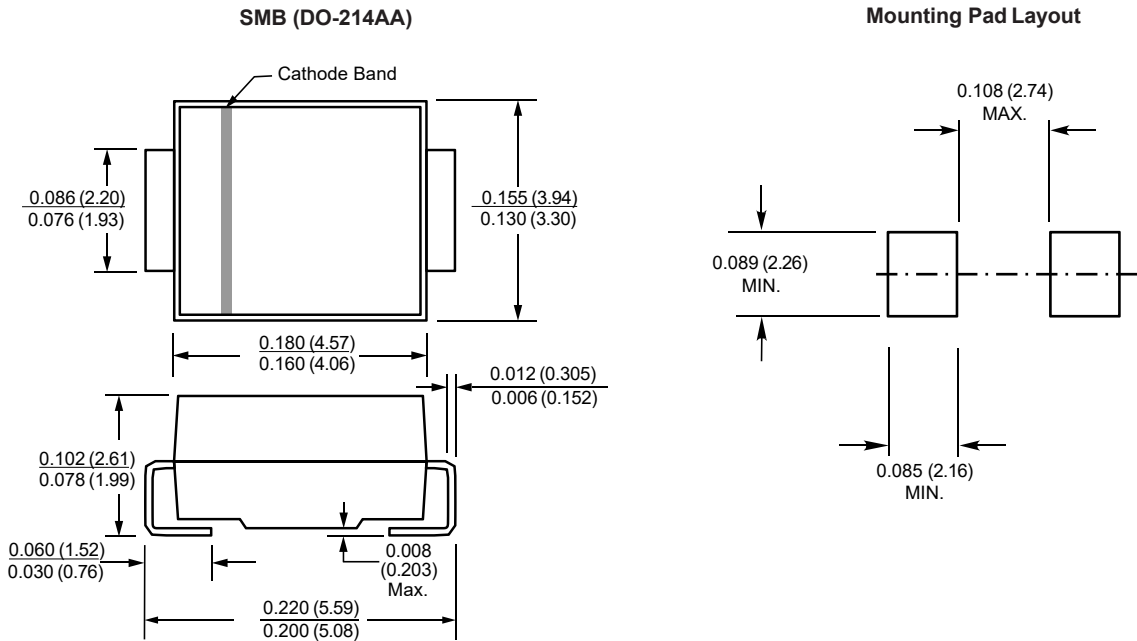
Note1: 8.3ms single half sine-wave superimposed on rated load

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

Note3: PCB. mounted with 5x5mm copper pad areas

SS510LB

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