

## Features

- The plastic package carries UL Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- 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: SMC(DO-214AB) package molded plastic body over passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

## Electrical Parameters

PARAMETER		SYMBOL	ES10G	UNIT
Maximum repetitive peak reverse voltage		$V_{RRM}$	400	V
Maximum RMS voltage		$V_{RMS}$	280	V
Maximum DC blocking voltage		$V_{DC}$	400	V
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		$I_{AV}$	10	A
Peak forward surge current		$I_{FSM}$	180	A
Maximum instantaneous forward voltage at 10A		$V_F$	1.35	V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25\text{ }^{\circ}\text{C}$	$I_R$	5	uA
	$T_A=100\text{ }^{\circ}\text{C}$	$I_{RT}$	100	uA
Maximum reverse recovery time (NOTE 1)		$t_{rr}$	35	ns
Typical junction capacitance (NOTE 2)		$C_J$	140	pF
Typical Thermal Resistance Junction to Ambient (NOTE3)		$R_{\theta JA}$	55	$^{\circ}\text{C/W}$
Typical Thermal Resistance Junction to Lead (NOTE3)		$R_{\theta JL}$	15	$^{\circ}\text{C/W}$
Operating Temperature Range		$T_J$	-55 to 150	$^{\circ}\text{C}$
Storage Temperature Range		$T_{STG}$	-55 to 150	$^{\circ}\text{C}$

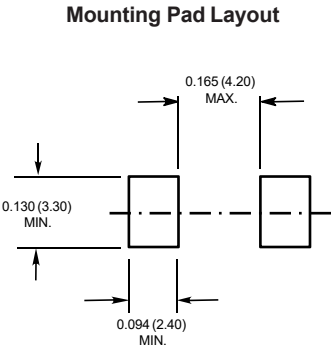
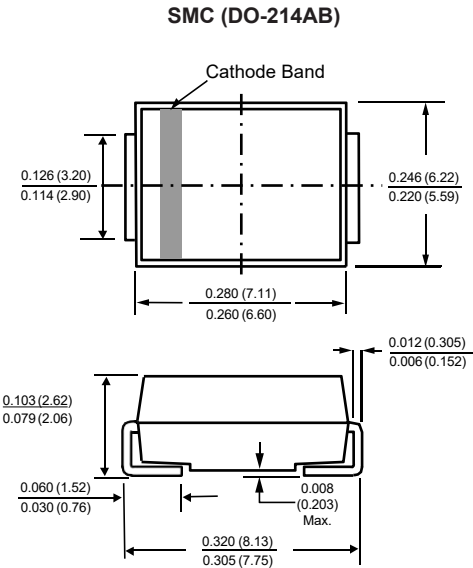
Note1: Reverse recovery condition  $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

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

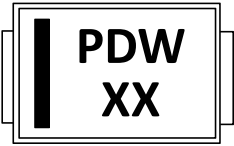
Note3: PCB. mounted with 5x5mm copper pad areas

Package Outline Dimensions in inches (millimeters)

CASE:0103



Part Marking System



Cathode Band  
(for uni-directional products only)

PDW:Company Logo  
XX:Marking Code

Summary of Packing Options

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