

SCHOTTKY RECTIFIERS	REVERSE VOLTAGE - 20 to 200 Volts FORWARD CURRENT - 3.0 Amperes									
FEATURES <ul style="list-style-type: none"> ● Low profile package ● Ideal for automated placement ● Ultrafast reverse recovery time ● Low power losses, high efficiency ● Low forward voltage drop ● High surge capability ● High temperature soldering : 260 °C /10 seconds at terminals ● Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC MECHANICAL DATA <ul style="list-style-type: none"> ● Case: JEDEC DO-214AA molded plastic body over glass passivated chip ● Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D ● Polarity: Laser band denotes cathode end 	<p style="text-align: center;">SMB(DO-214AA)</p> <p>The diagram shows two views of the SMB(DO-214AA) package. The top view shows the overall rectangular package with dimensions: height (0.155/3.94), width (0.185/4.70), and thickness (0.075/1.91). The side view shows the lead spacing (0.160/4.06), lead height (0.130/3.30), lead thickness (0.012/0.305), lead width (0.006/0.152), and lead pitch (0.220/5.59).</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>									
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS	Rating at 25°C ambient temperature unless otherwise specified.									
CHARACTERISTICS	SYMBOL SS32B SS33B SS34B SS35B SS36B SS38B SS310B SS315B SS320B UNIT									
Maximum Recurrent Peak Reverse Voltage	V _{RRM} 20 30 40 50 60 80 100 150 200 V									
Maximum RMS Voltage	V _{RMS} 14 21 28 35 42 56 70 105 140 V									
Maximum DC Blocking Voltage	V _{DC} 20 30 40 50 60 80 100 150 200 V									
Maximum Average Forward Rectified Current	I _{F(AV)} 3.0 A									
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I _{FSM} 100 A									
Instantaneous forward voltage at 3.0A DC (Note2)	V _F 0.5 0.55 0.7 0.85 0.95 V									
Voltage rate of change (rated V _R)	dv/dt 10000 V/μs									
Reverse Current V _R =V _{DC} @T _J =25°C @T _J =100°C	I _R 0.5 5 mA									
Thermal Resistance From Junction to Lead (Note1)	R _{θJL} 25 °C/W									
Operating Temperature Range	T _J -65 to + 125 °C									
Storage Temperature Range	T _{STG} -65 to + 125 °C									
NOTES:1. Mounted on P.C.B. with 0.28 x 0.28" (7.0 x 7.0mm) copper pad areas. 2. Pulse test:300 μ s pulse width,1% duty cycle. 3.The typical data above is for reference only(典型值仅供参考).										

Fig.1 Forward Current Derating Curve

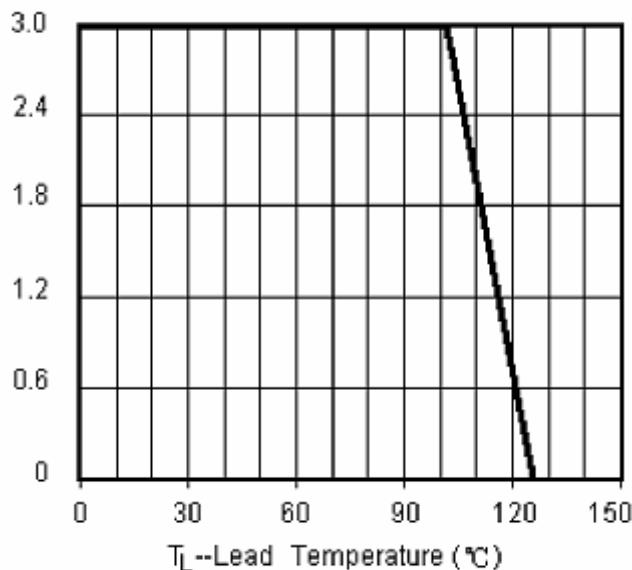


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

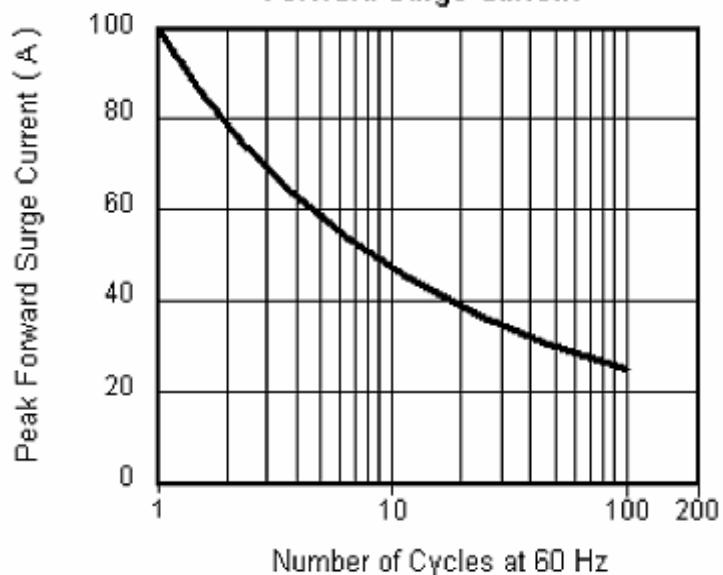


Fig.3 Typical Instantaneous Forward Characteristics

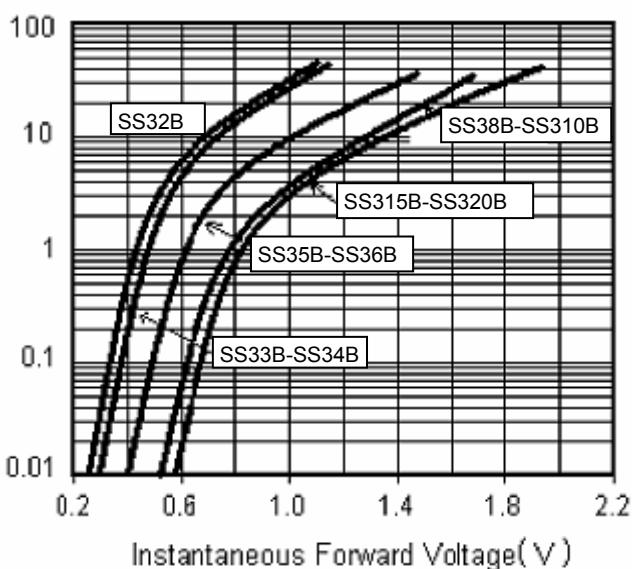
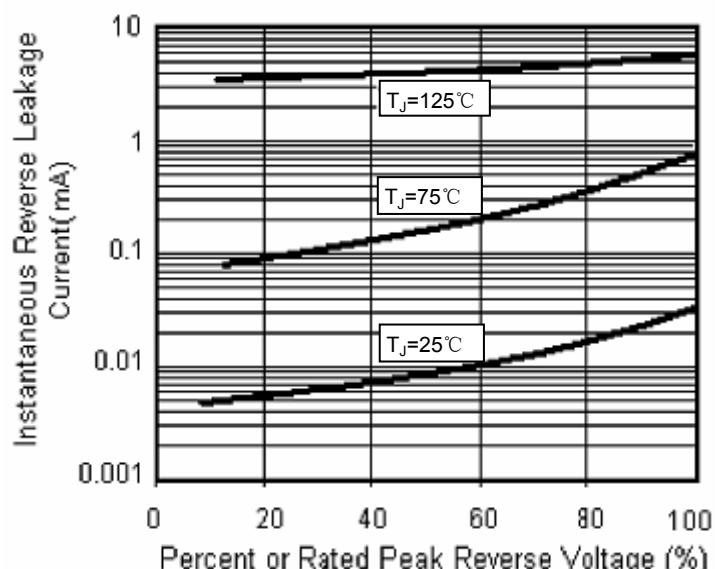


Fig.4 Typical Reverse Leakage Characteristics



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!