Data Sheet

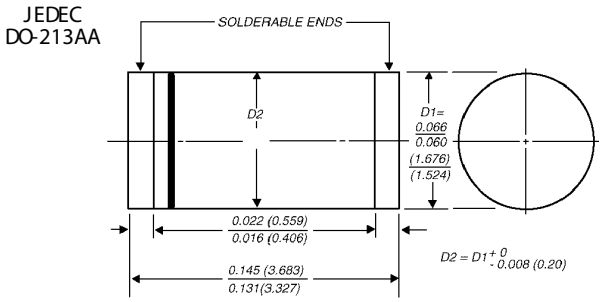
350mA Surface Mounted Schottky Barrier Rectifiers

SD103AMM~CMM

Description

GLASS MINIMELF(DO-213AA)

Mechanical Dimension



Dimensions in inches and (mm)

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25℃

Parameter	Symbol	SD103AMM	SD103BMM	SD103CMM	Unit
Peak Repetitive Peak reverse voltage Working Peak DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_{FM}	350			mA
Repetitive Peak Forward Current @t≤1.0s	I_{FRM}	1.0			A
Power Dissipation	Pd	400			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250			℃/W
Storage temperature	T_{STG}	-65~+175			℃

Electrical Ratings @T_A=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage SD103AMM SD103BMM SD103CMM	$V_{(BR)R}$	 40 30 20			V	 IR=10μA IR=10μA IR=10μA
Forward voltage	V_F			0.37 0.60	V	I_F=20mA I_F=200mA
Reverse current SD103AMM SD103BMM SD103CMM	I_{RM}			5.0	μA	 V_R=30V V_R=20V V_R=10V
Capacitance between terminals	C_T		50		pF	V_R=0V,f=1.0MHz
Reverse Recovery Time	t_{rr}		10		ns	I_F=I_R=50~200mA Irr=0.1XI_R,R_L=100Ω

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Typical Characteristics SD103AMM-SD103CMM

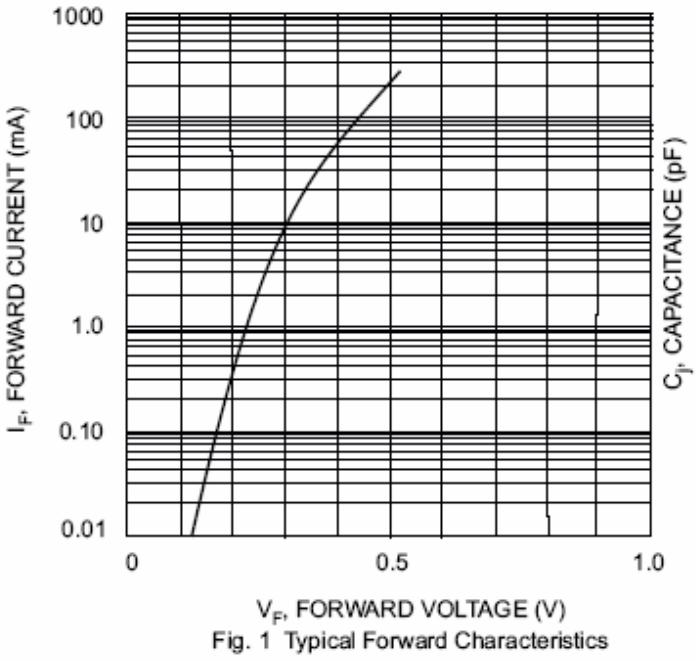

Fig. 1 Typical Forward Characteristics

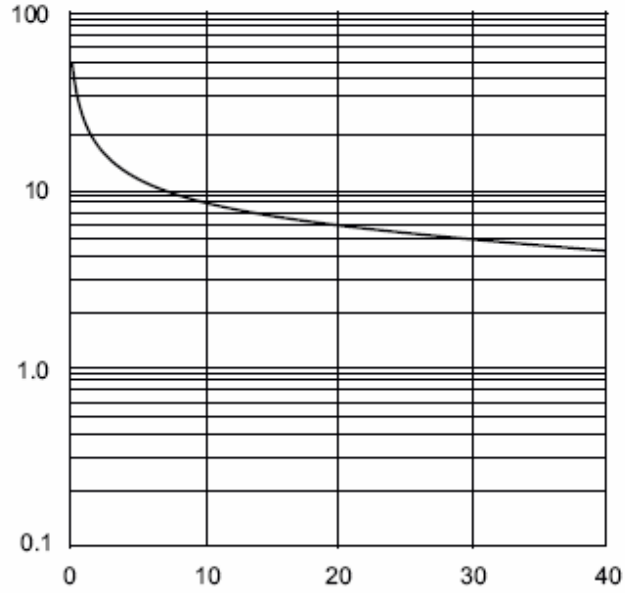

Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

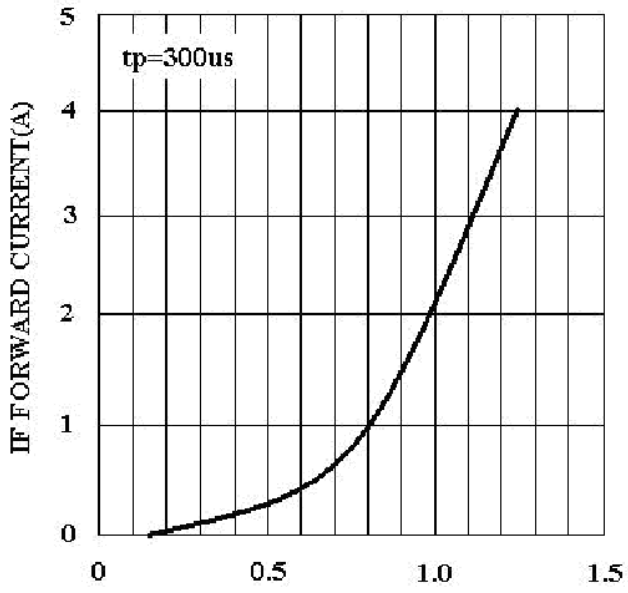

Fig. 3 TYPICAL HIGH CURRENT FORWARD

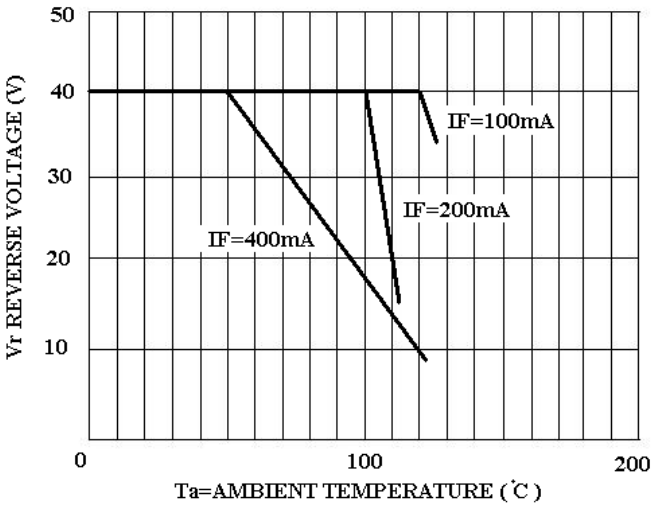

Fig 4 BLOCKING VOLTAGE DERATING CURVES