HFZT

SD103AW-SD103CW

SCHOTTKY BARRIER DIODE

VOLTAGE RANGE: 20V-40V PEAK PULSE POWER:250mW

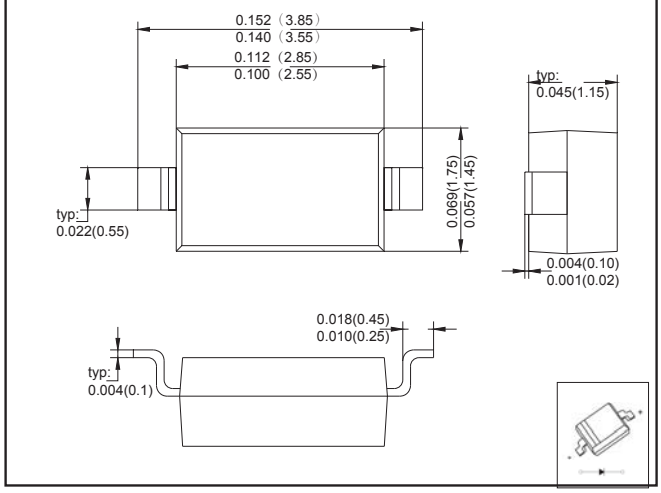
FEATURES

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

MECHANICAL DATA

- Case: SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

SOD-123



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Symbol	Parameter	Value			Unit
		SD103AW	SD103BW	SD103CW	
V_{RRM}	Peak Repetitive Reverse Voltage	40	30	20	V
V_{RWM}	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	28	21	14	V
I_{FM}	Forward Continuous Current	350			mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2			A
P_D	Power Dissipation	400			mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	250			℃/W
T_j	Junction Temperature	125			℃
T_{stg}	Storage Temperature	-55~+150			℃

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100μA	SD103AW	40			V
			SD103BW	30			
			SD103CW	20			
Reverse current	I_R	V_R=30V	SD103AW			5	μA
		V_R=20V	SD103BW				
		V_R=10V	SD103CW				
Forward voltage	V_F	I_F=20mA				0.37	V
		I_F=200mA				0.6	
Total capacitance	C_{tot}	V_R=0V,f=1MHz			50		pF
Reverse recovery time	t_{rr}	I_F= I_R=200mA, I_{rr}=0.1×I_R, R_L=100Ω			10		ns

	SD103AW	SD103BW	SD103CW
MARKING:	S4	S5	S6

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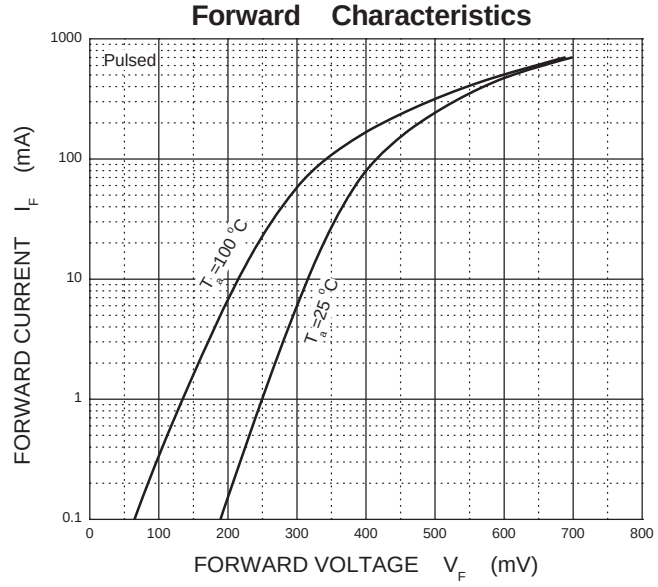
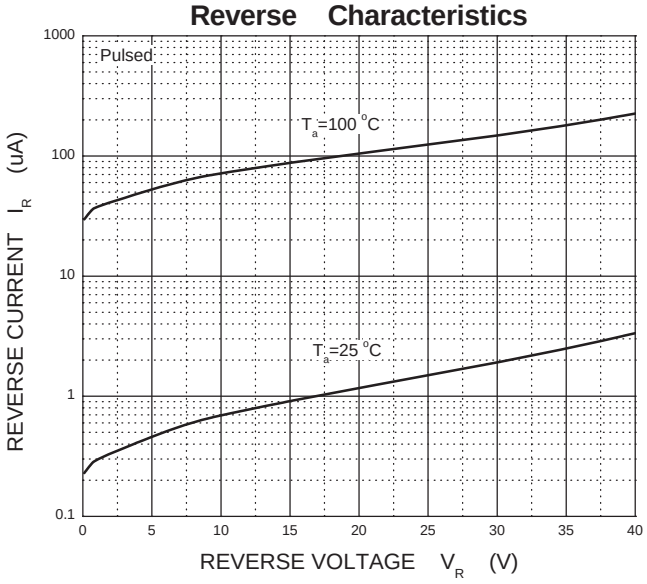
RATINGS AND CHARACTERISTIC CURVES

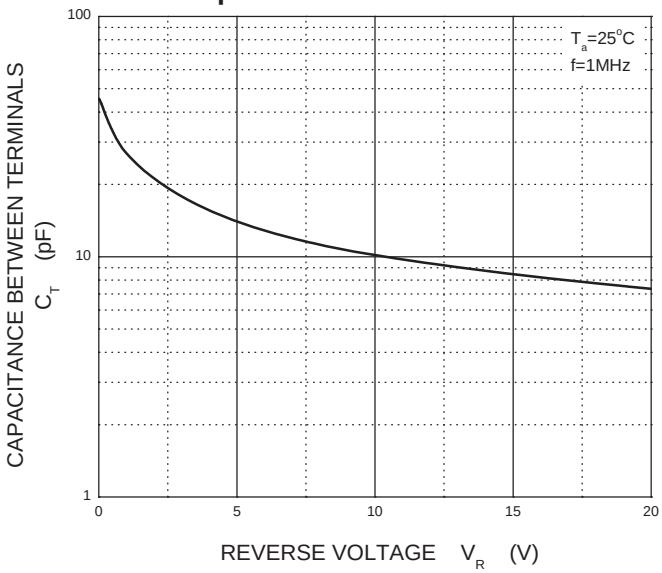
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve