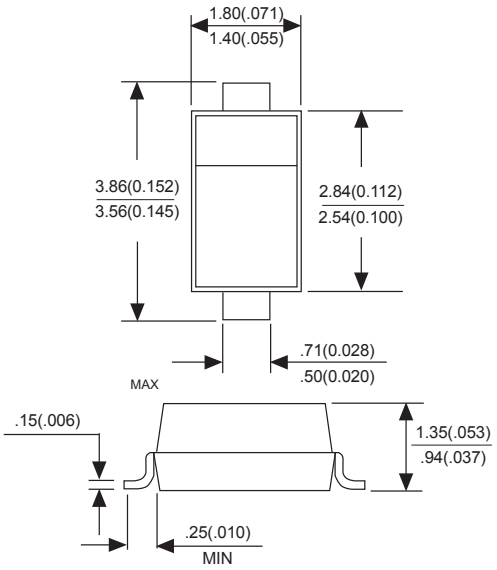
SD103AW

Surface Mount Schottky Barrier Rectifiers

FEATURES

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

SOD-123



Dimensions in millimeters and (inches)

MECHANICAL DATA

Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on case
Marking:S4

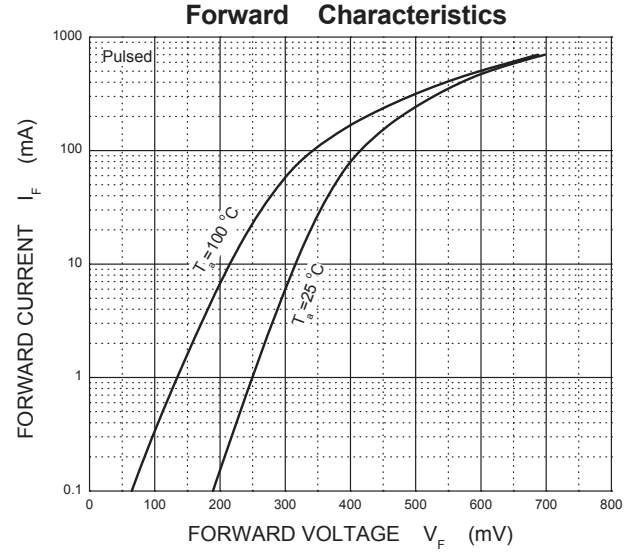
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
		SD10AW	
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Vo ltage	28	V
I_{FM}	Forw ard Continuous Current	350	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2	A
P_D	Powe r 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	℃

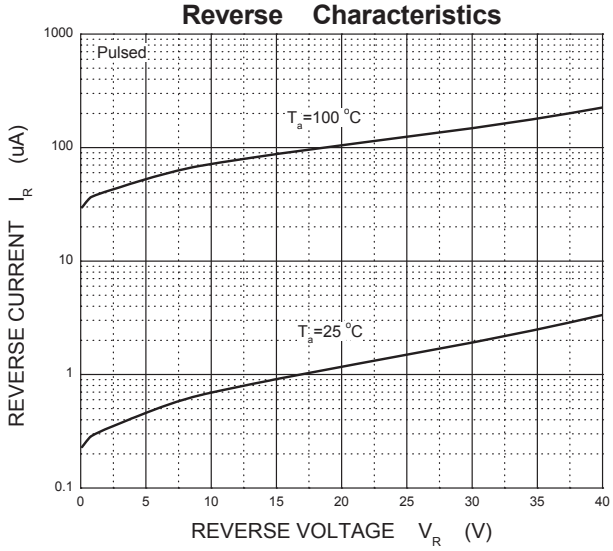
ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100 μA	40			V
Reverse current	I_R				5	μA
Forward voltage	V_F	I_F=20m A			0.37	V
		I_F=200m A			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

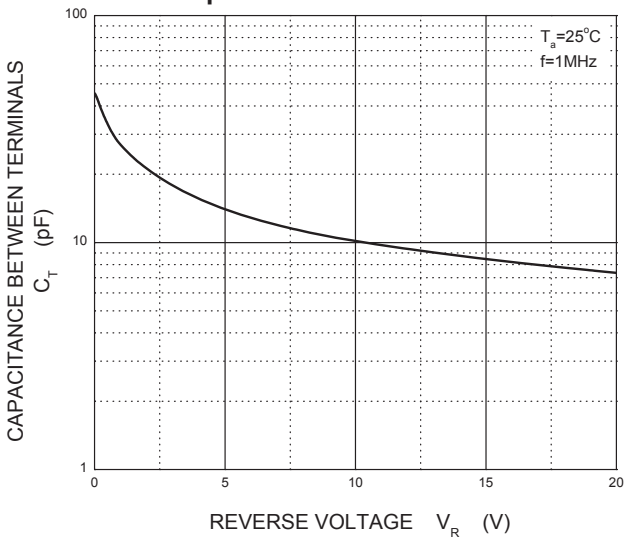
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve