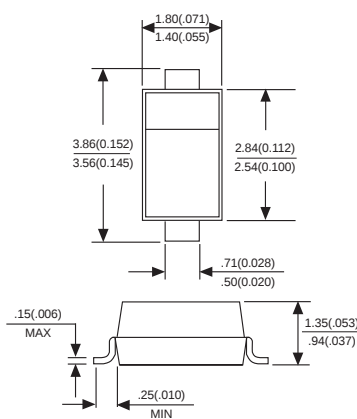


SCHTTKY DIODES

SOD-123



Features

- Low forward voltage drop
- Guard ring construction for transient protection
- Negligible reverse recovery time
- low reverse capacitance

Mechanical Data

Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on case
Mounting Position: Any
Marking: SD103AW:S4, SD103BW:S5, SD103CW:S6

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @T_A=25°C

PARAMETER	SYMBOLS	SD103AW	SD103BW	SD103CW	UNITS
Peak repetitive peak reverse voltage	V _{RRM}				VOLTS
Working peak reverse voltage	V _{RWM}	40	30	20	
DC Blocking voltage	V _{DC}				
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}	1.5			A
Power dissipation	P _d	400			mW
Thermal resistance junction to ambient	R _{θJA}	300			°C/W
Storage temperature	T _{STG}	-65 to +125			°C

Electrical ratings @T_A=25°C

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	SD103AW SD103BW SD103CW	40 30 20			V	IR=100uA IR=100uA IR=100uA
Foward voltage	V _F			0.37 0.60	V	I _F =20mA I _F =200mA
Reverse current	SD103AW SD103BW SD103CW			5.0	uA	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 =200mA I _{rr} =0.1X I _R , R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES SD103AW-SD103CW

FIG. 1- TYPICAL FORWARD CHARACTERISTICS

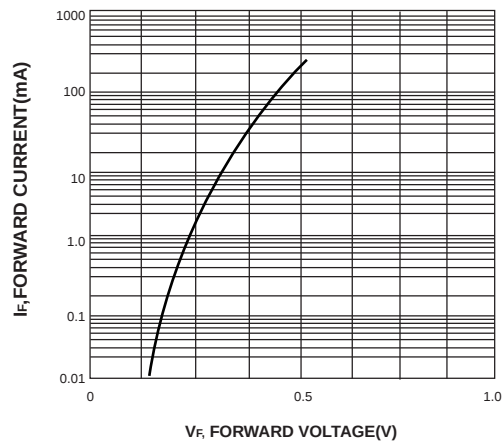


FIG. 2-TYP. JUNCTION CAPACITANCE VS REVERSE VOLTAGE

