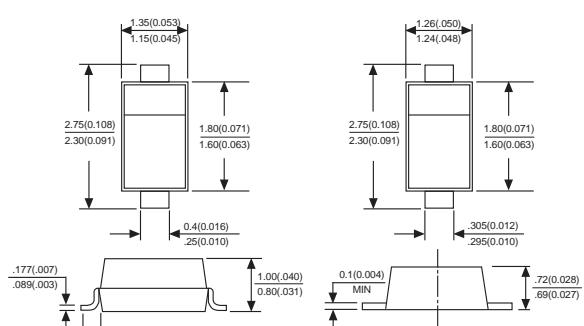


**SD103AWS THRU SD103CWS**
**VOLTAGE RANGE  
CURRENT**
**20 to 40 Volts  
1.5 Ampere**
**FEATURES**

- 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 : SD103AWS:S4, SD103BWS:S5, SD103CWS:S6



Dimensions in millimeters and (inches)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

- Maximum ratings and electrical characteristics, Single diode @ $T_A=25^\circ C$

PARAMETER	SYMBOLS	SD103AWS	SD103BWS	SD103CWS	UNITS
Peak repetitive peak reverse voltage	$V_{RRM}$				
Working peak reverse voltage	$V_{RMS}$	40	30	20	VOLTS
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 @ $t \leq 1.0s$	$I_{FRM}$		1.5		A
Power dissipation	$P_d$		200		mW
Thermal resistance junction to ambient	$R_{\Theta JA}$		300		$^\circ C/W$
Storage temperature	$T_{STG}$		-65 to +125		$^\circ C$

- Electrical ratings @ $T_A=25^\circ C$

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)R}$	40			V	$I_R=10uA$
		30				$I_R=10uA$
		20				$I_R=10uA$
Forward voltage	$V_F$			0.37 0.60	V	$I_F=20mA$ $I_F=200mA$
Reverse current	$I_{RM}$			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	$I_F=I_R=200mA$ $I_{rr}=0.1X I_R, R_L=100\Omega$

## SD103AWS THRU SD103CWS

VOLTAGE RANGE  
CURRENT20 to 40 Volts  
1.5 Ampere

FIG. 1-TYPICAL FORWARD CHARACTERISTICS

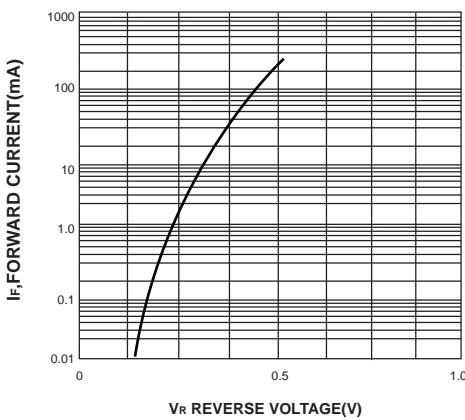


FIG. 2-TYP. JUNCTION CAPACITANCE VS REVERSE VOLTAGE

