



# SD103AW-TA

## DUAL SURFACE MOUNT SCHOTTKY BARRIER DIODES

**VOLTAGE** 40 Volts **CURRENT** 200 mWatts

**SOT-23** Unit: inch ( mm )

### FEATURES

- Low Forward Voltage Drop
- Common Anode Configuration
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

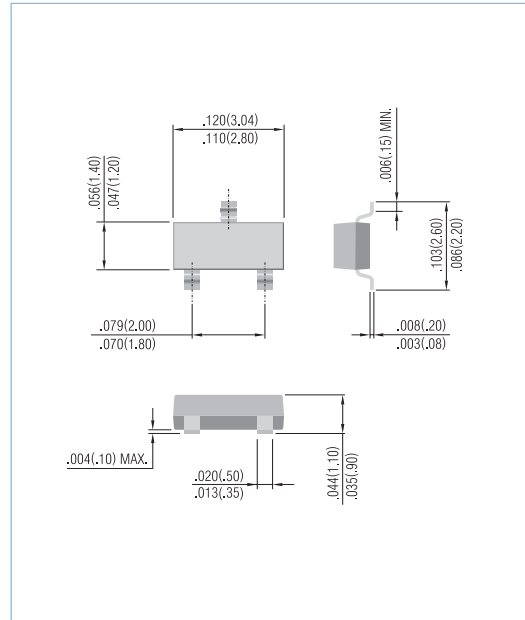
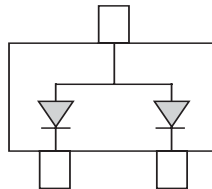
Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.008 gram

Marking Code: S6A

COMMON ANODE



### MAXIMUM RATINGS @ TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current, Per Element	$I_{FM}$	200	mA
Non-Repetitive Peak Forward Surge Current @ t=8.3ms	$I_{FSM}$	1	A
Junction Temperature Range	$T_J$	-55 to +125	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

### THERMAL CHARACTERISTICS @ TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Units
Power Dissipation (Note 1)	$P_D$	200	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	500	°C/W

NOTE : 1.Mounted on FR4 PC Board with recommended pad

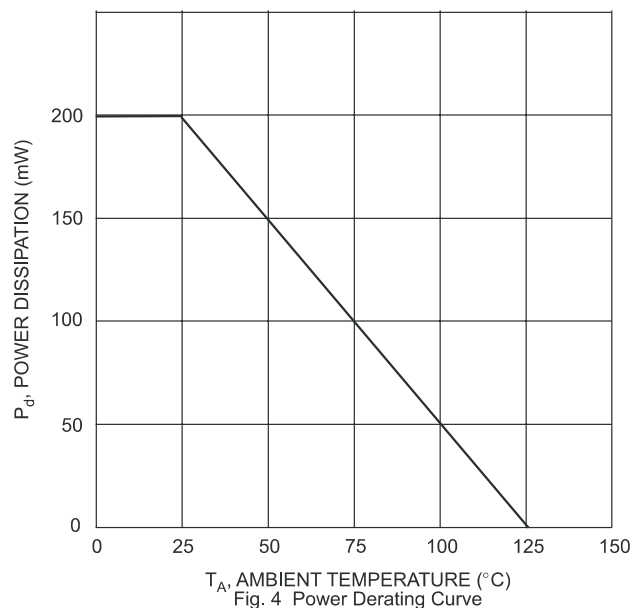
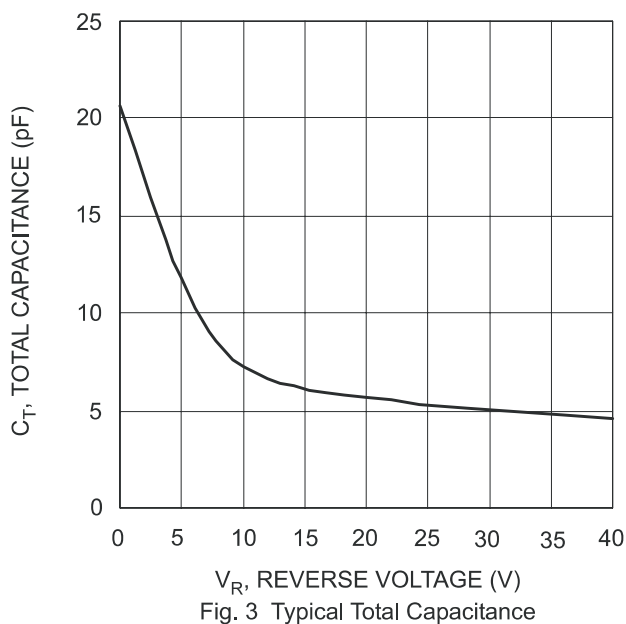
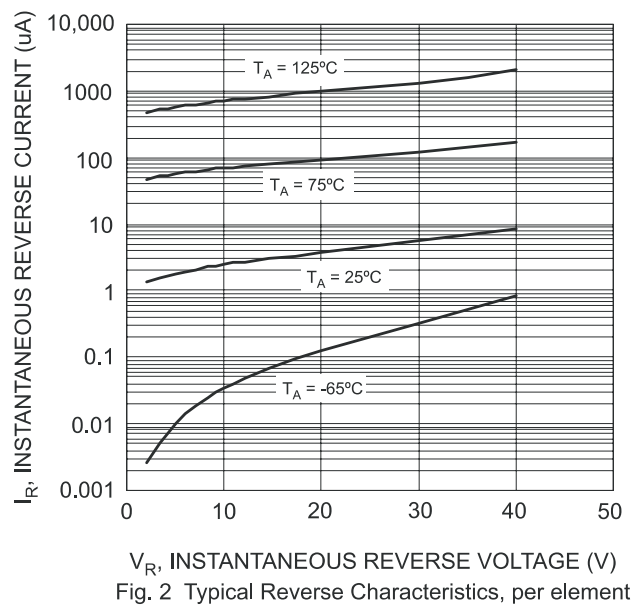
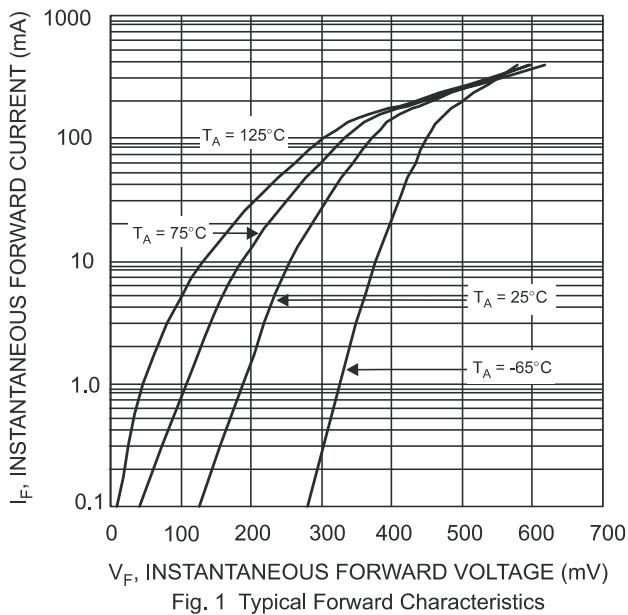


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## ELECTRICAL CHARACTERISTICS @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	$I_R=500\mu\text{A}$	40	-	-	V
Forward Voltage (Note 2)	$V_F$	$I_F=10\text{mA}$ $I_F=100\text{mA}$ $I_F=200\text{mA}$	-	-	320 440 550	mV
Leakage Current (Note 2)	$I_R$	$V_R=30\text{V}$ $V_R=30\text{V}, T_J=100^\circ\text{C}$	-	-	15 3	$\mu\text{A}$ mA
Total Capacitance	$C_T$	$V_R=0\text{V}, f=1.0\text{MHz}$	-	23	50	pF

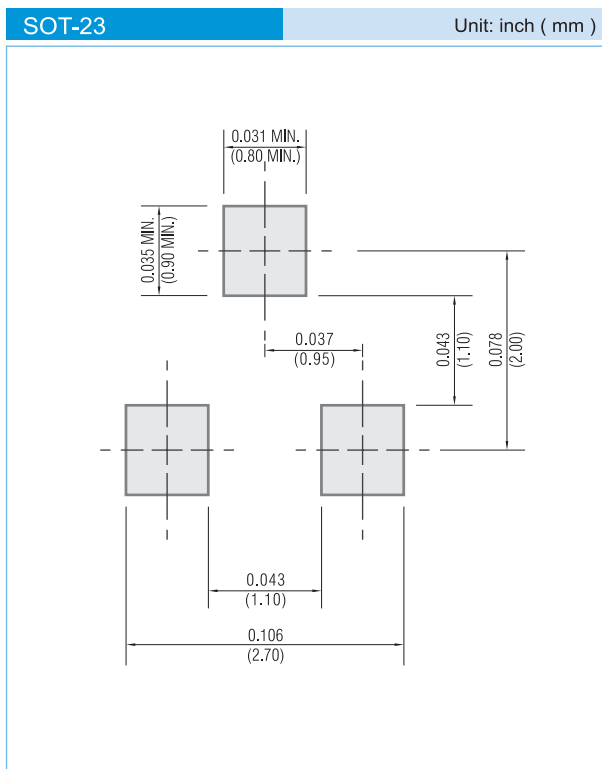
- NOTE : 1. Mounted on FR4 PC Board with recommended pad  
 2. Short duration test pulse used to minimize self-heating effect  
 3. No purposefully added lead





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## MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel

### LEGAL STATEMENT

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