



SD103AW-TA

DUAL SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE 40 Volts **CURRENT** 200 m5

SOT-23 Unit : inch(mm)

FEATURES

- Low Forward Voltage Drop
- Common Anode Configuration
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

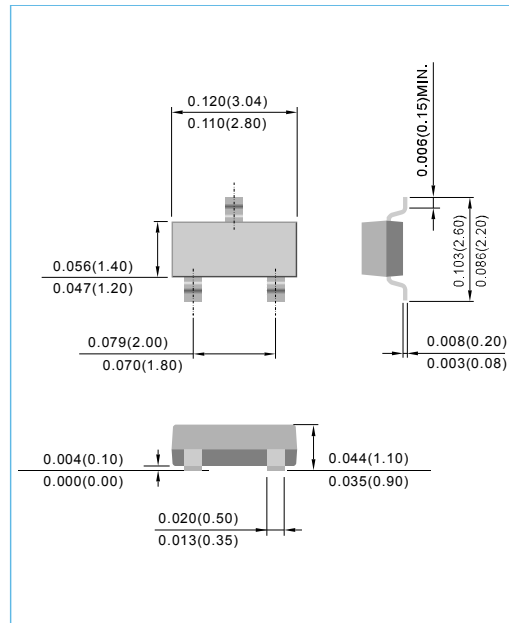
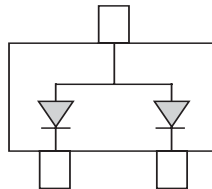
Case: SOT-23, Plastic

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

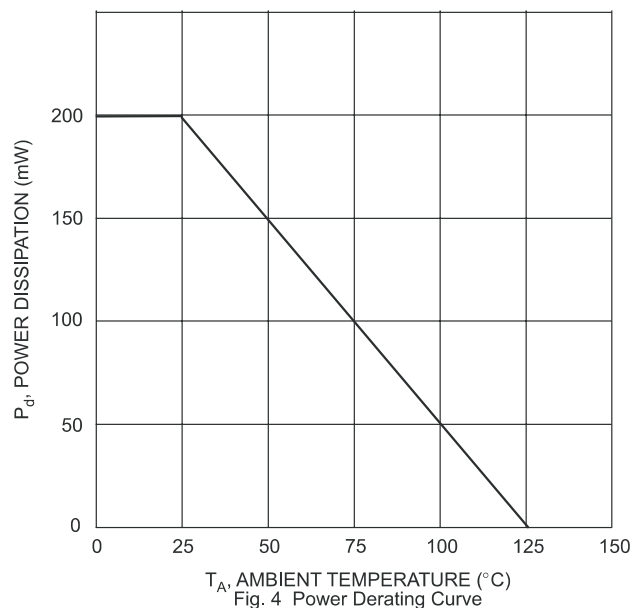
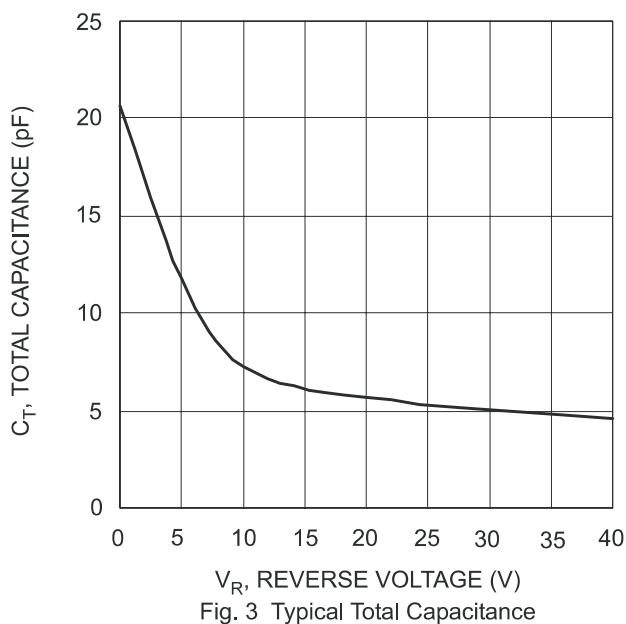
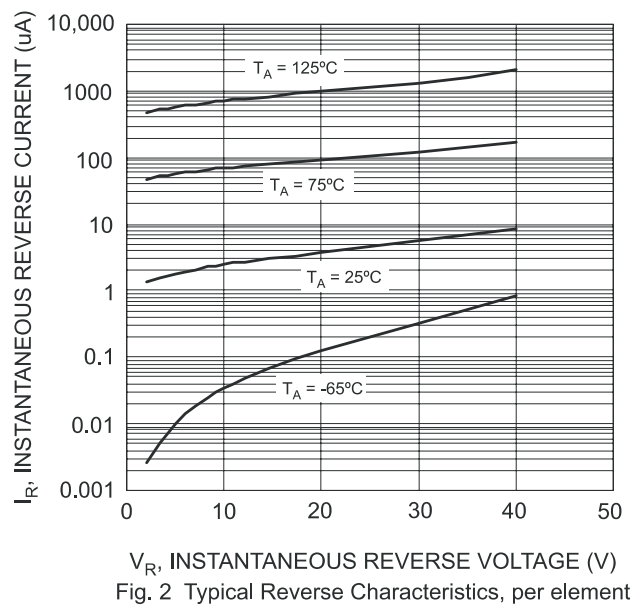
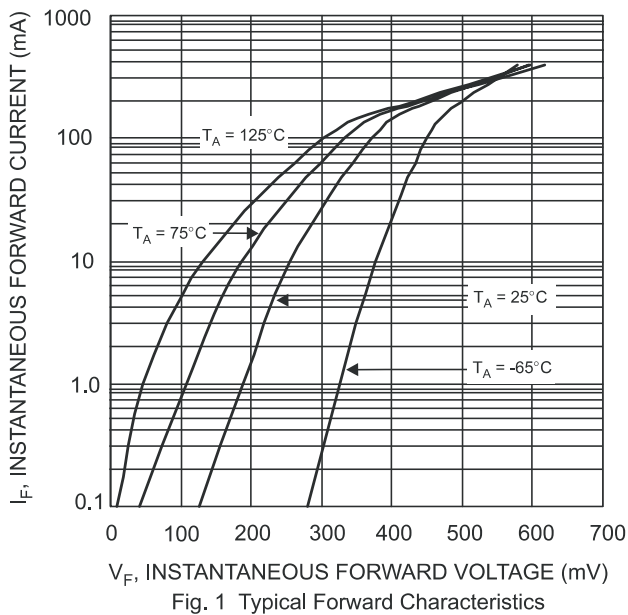


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ELECTRICAL CHARACTERISTICS @ $T_A=25^\circ\text{C}$ unless otherwise specified

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	$I_F=10\text{mA}$	-	-	320	mV
		$I_F=100\text{mA}$	-	-	440	
		$I_F=200\text{mA}$	-	-	550	
Leakage Current (Note 2)	I_R	$V_R=30\text{V}$	-	-	15	μA
		$V_R=30\text{V}, T_J=100^\circ\text{C}$	-	-	3	mA
Total Capacitance	C_T	$V_R=0\text{V}, f=1.0\text{MHz}$	-	23	50	pF

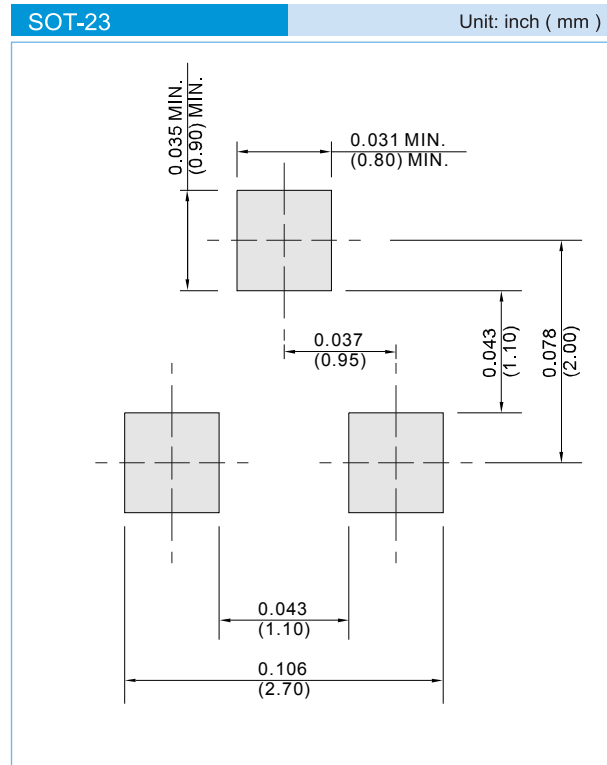
- NOTE : 1.Mounted on FR4 PC Board with recommended pad
 2.Short duration test pulse used to minimize self-heating effect
 3.No purposefully added lead





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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



SD103AW-TA

Part No_packing code_Version

SD103AW-TA_R1_00001

SD103AW-TA_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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