



AZ23C5V6P

SURFACE MOUNT ZENER DIODES

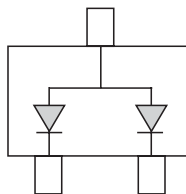
FEATURES

- Planar die construction
- 200mW Power dissipation
- Ideally suited for automated assembly processes
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

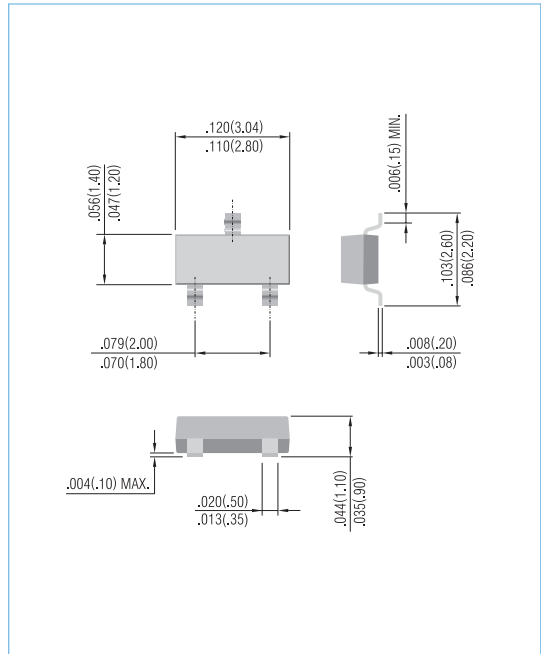
- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See circuit schematic below
- Approx. Weight: 0.008gram
- Mounting Position: Any
- Marking : ID

COMMON ANODE



SOT-23

Unit: inch (mm)



MAXIMUM RATINGS

Parameter	Symbol	Value	Units
Maximum Power Dissipation at 25°C	P _D	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

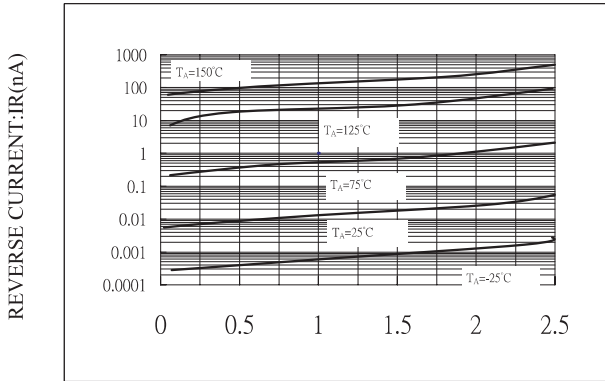
ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Condition	Value		Unit
			Min.	Max.	V
Zener Voltage	V _Z	I _Z =5mA	5.31	5.92	V
Maximum DC Reverse Current T _A =25°C	I _R	V _R =2.5V	1.0		μA
Dynamic Impedance	Z _Z	I _Z =5mA	60		Ω
Rising Operation Resistance	Z _{ZK}	I _Z =0.5mA	200		Ω
Capacitance Between Terminals	C _T	f=1MHz V _R =5V	TYP. 12		pF

Note : Valid provided that leads ara distance of 8mm from case are keptatam bienttem perature



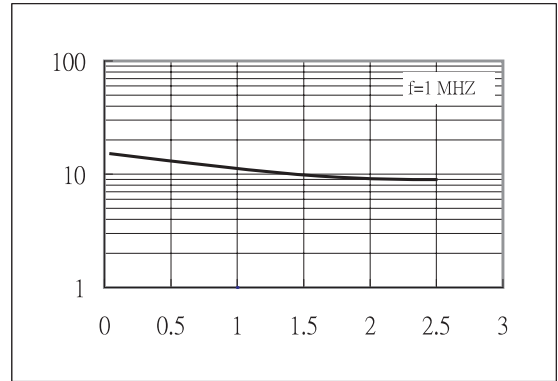
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REVERSE VOLTAGE:VR(V)

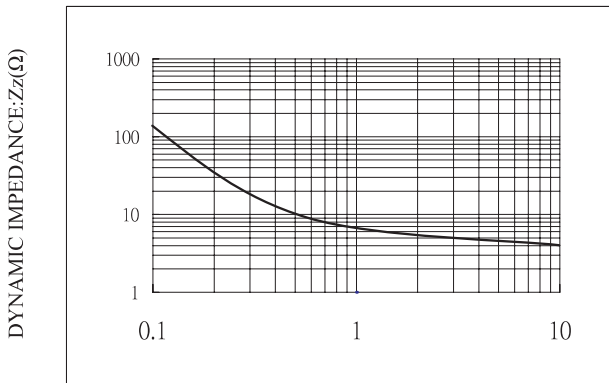
Fig.1-VR-CT CHARACTERISTICS

CAPACITANCE BETWEEN TERMINALS:CT₄F



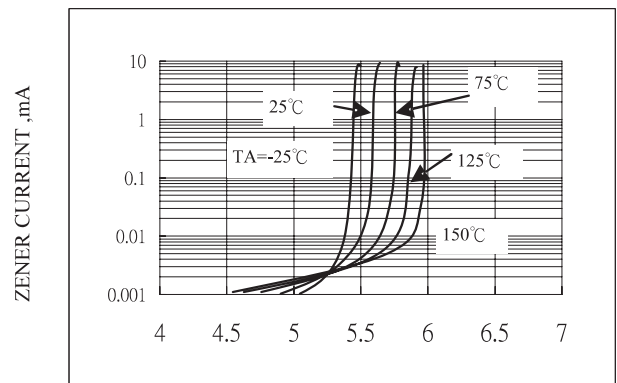
REVERSE VOLTAGE:VR(V)

Fig.2-VR-CT CHARACTERISTICS



ZENER CURRENT ,mA

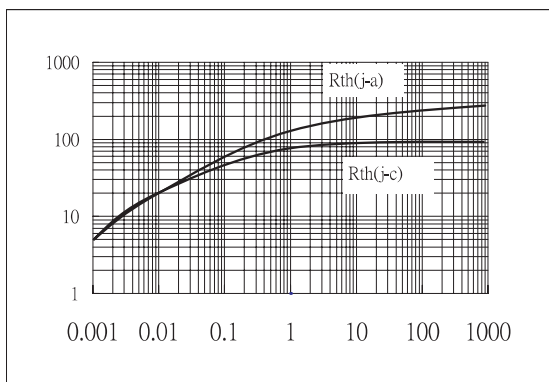
Fig.3Zz-Iz CHARACTERISTCS



V_Z:ZENER VOLTAGE(VOLTS)

Fig.4Vz-Iz CHARACTERISTCS

TRANSIENT THERMAL IMPEDANCE:Rth(C/W)



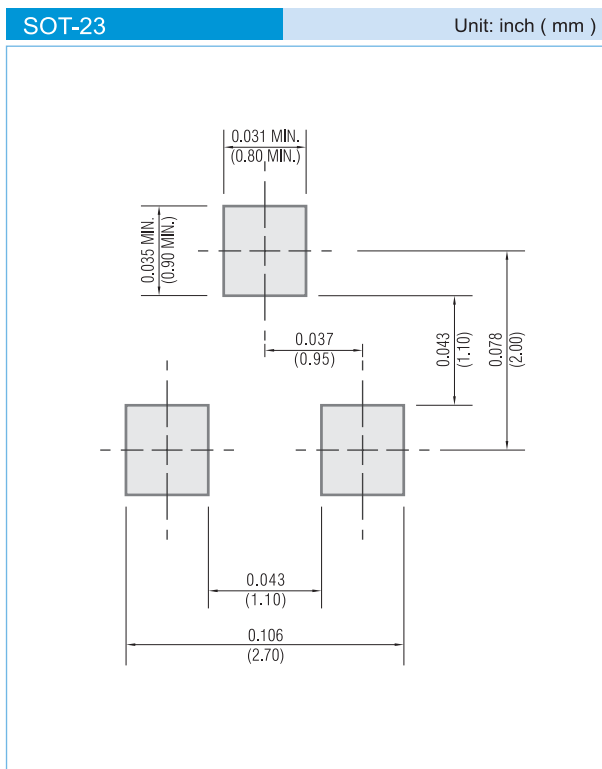
TIME:t(s)

Fig.5Rth-t CHARACTERISTCS



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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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