



STZ23C5V6

SURFACE MOUNT ZENER DIODES

FEATURES

- Planar die construction
- 200mW Power dissipation
- Ideally suited for automated assembly processes
- Exceed ESD standard based on IEC-61000-4-2 Contact : 8kV, Air : 15kV
- 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, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See circuit schematic below
- Approx. Weight: 0.0003 ounce, 0.0084 gram
- Mounting Position: Any
- Marking : JD

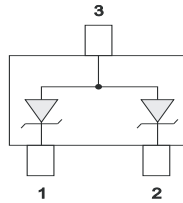
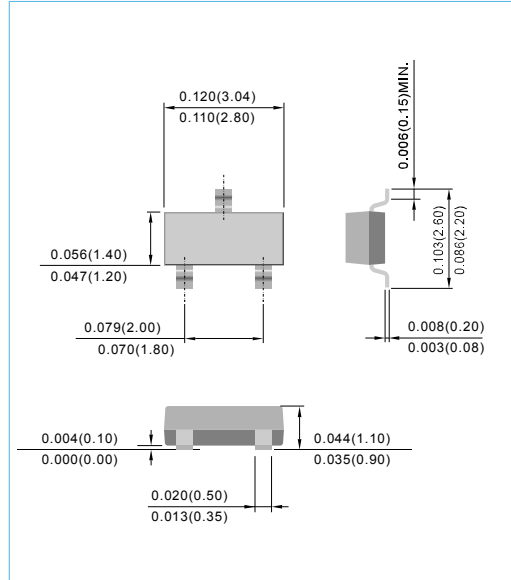


Fig.25

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.	
Zener Voltage	V _Z	I _Z =5mA			V
			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 _T	I _Z =5mA	60		Ω
Rising Operation Resistance	Z _K	I _Z =0.5mA	200		Ω
Capacitance Junction	C _J	f=1MHz V _R =5V	17(Typ.)		pF

Note : Valid provided that leads ara distance of 8mm from case are kept at ambient temperature



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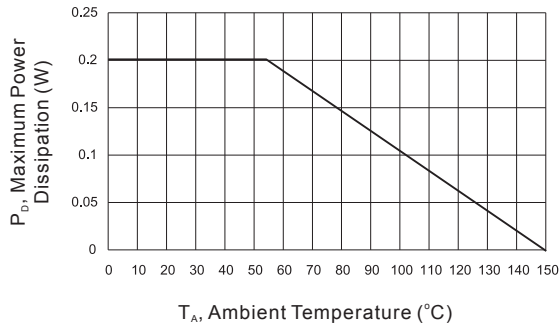


Fig. 1 Power Derating Curve

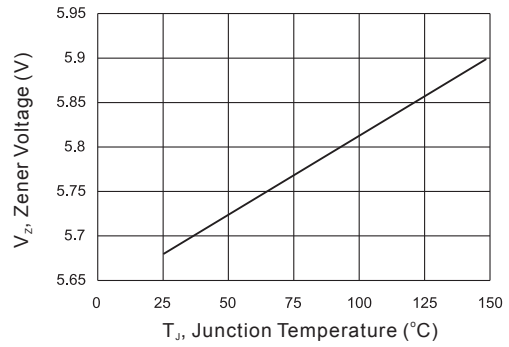


Fig. 2 Typical Zener Voltage Versus Junction Temperature

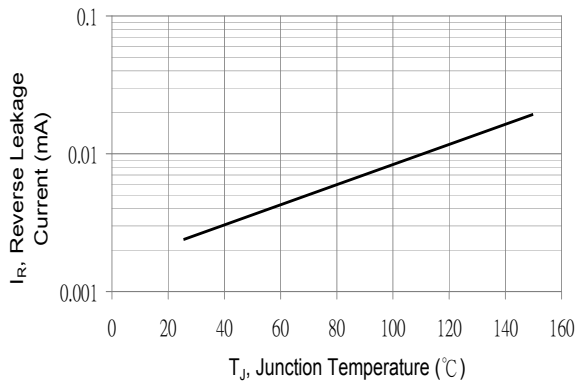


Fig. 3 Typical Leakage Current Versus Junction Temperature

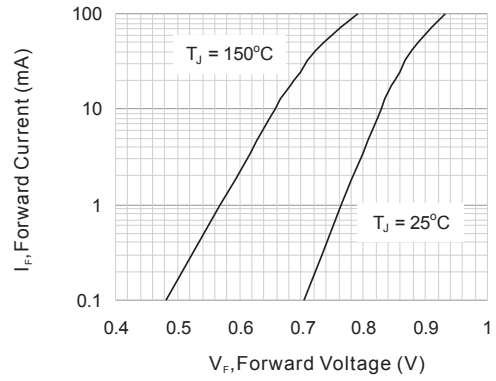


Fig. 4 Typical Forward Voltage

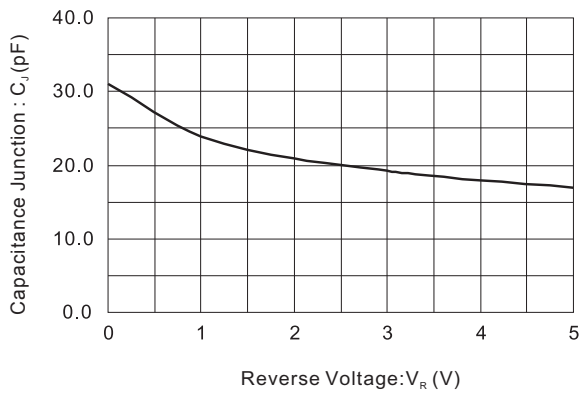
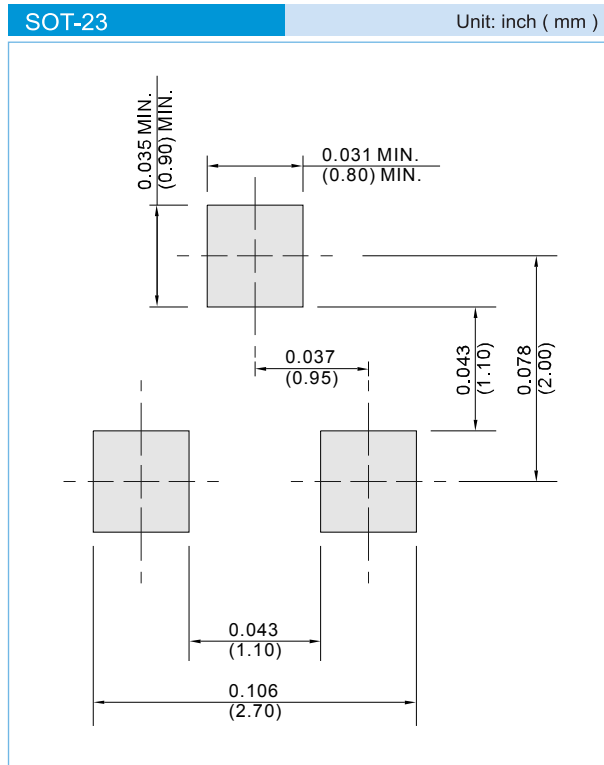


Fig. 5 Typical Capacitance



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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



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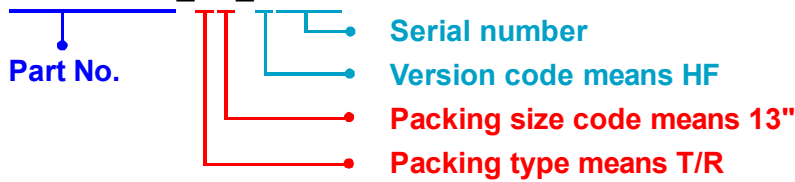
Part No_packing code_Version

STZ23C5V6_R1_00001

STZ23C5V6_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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