



#### **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 compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- · Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounce, 0.0084 gram
- · Marking: JD

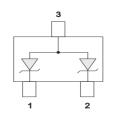
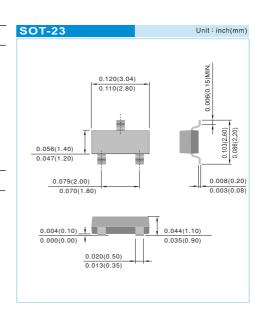


Fig.25



### **MAXIMUM RATINGS**

Parameter	Symbol	Value	Units
Maximum Power Dissipation at 25°C	PD	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

#### **ELECTRICAL CHARACTERISTICS**

Parameter	Symbol	Condition	Value		Unit
	Vz		Min.	Мах.	V
Zener Voltage		I z=5mA	5.31	5.92	٧
Maximum DC Reverse Current Ta=25°C	IR	VR=2.5V	1.0		μΑ
Dynamic Impedance	<b>Z</b> zī	I z=5mA	60		Ω
Rising Operation Resistance	Zzĸ	I z=0.5mA	200		Ω
Capacitance Junction	CJ	f=1MHz VR=5V	17(Typ.)		pF

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





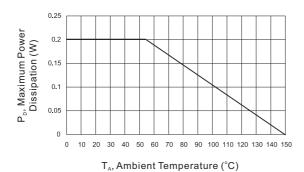


Fig. 1 Power Derating Curve

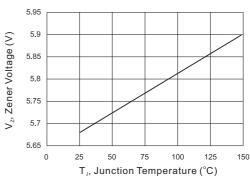


Fig. 2 Typical Zener Voltage Versus Junction Temperature

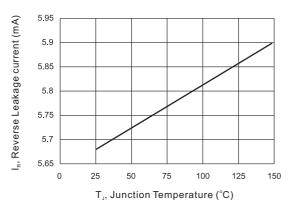
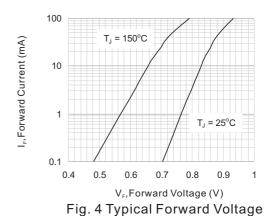
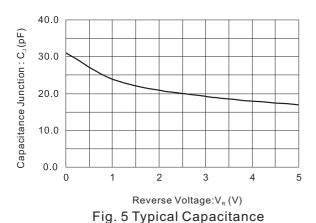


Fig. 3 Typical Leakage Current Versus Junction Temperature

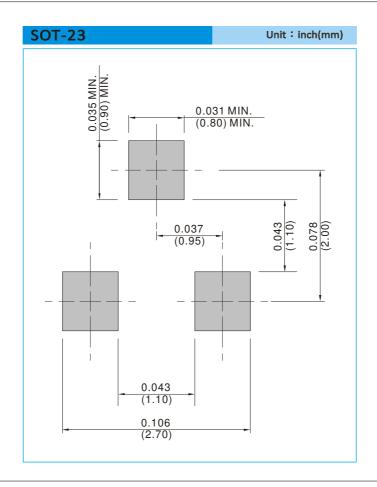








#### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

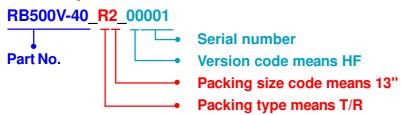




### Part No\_packing code\_Version

STZ23C5V6\_R1\_00001 STZ23C5V6\_R2\_00001

### For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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)	В	13"	2				
Tube Packing (T/P)	Т	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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