



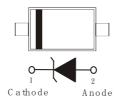
SURFACE MOUNT ZENER DIODES

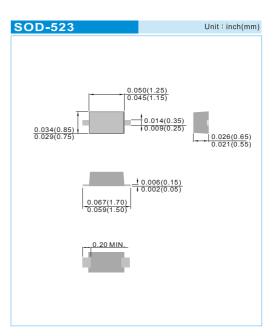
FEATURES

- · Planar die construction
- 150mW Power dissipation
- · Ideally suited for automated assembly processes
- Ultra Thin Profile Package for Space Constrained Utilization
- · Package suitable for Automated Handling
- Exceed ESD standard based on IEC-61000-4-2 Contact : 8kV, Air : 15kV
- · Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Polarity: See circuit schematic below
- · Approx. Weight: 0.0001 ounce, 0.0014 gram
- · Mounting Position: Any
- Marking : AD





ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

PARAMETER		VALUE	UNITS
Maximum Power Dissipation	Po	150	mW
Typical Thermal Resistance, Junction to Ambient (Note1)	Rөja	750	°C/W
Operating Junction Temperature and Storage Temperature Range	ТЈ,Тѕтс	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	CONDITION	VALUE			UNIT
Zener Voltage	Vz		Nom.	Min.	Max.	V
		I z=5mA	5.6	5.31	5.92	V
Maximum DC Reverse Current	IR	VR=2.5V	1.0			μА
Dynamic Impedance	Z zī	I z=5mA	15		Ω	
Rising Operation Resistance	Zzĸ	I z=0.5mA	60		Ω	
Typical Capacitance Junction	Сл	f=1MHz VR=5V	17		pF	

NOTES:

1. Mounted on an FR4 PCB, single-sided copper, mini pad.





RATING AND CHARACTERISTIC CURVES

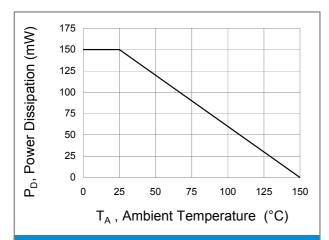


Fig.1 Steady-State Power Derating Curve

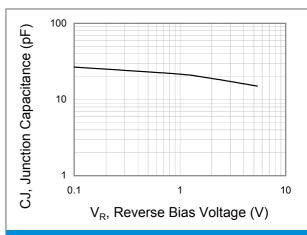


Fig.2 Typical Junction Capacitance

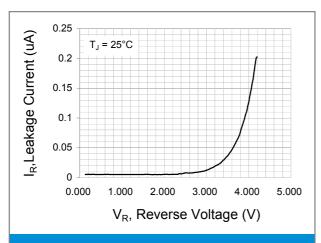


Fig.3 Typical Leakage Characteristics

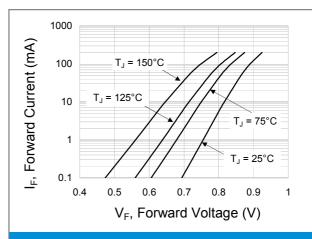


Fig.4 Typical Forward Characteristics

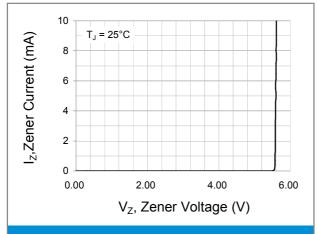


Fig.5 Typical Zener Characteristics

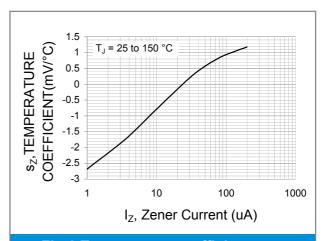


Fig.6 Temperature coefficient as a function of working current; typical





RATING AND CHARACTERISTIC CURVES

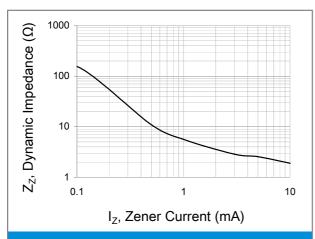
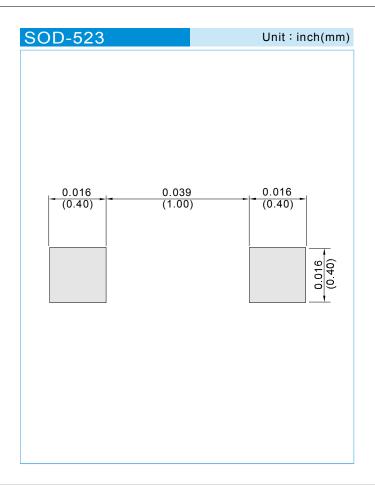


Fig.7 Typical Zener Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





Part No_packing code_Version

STZ23C5V6TS_R1_00001 STZ23C5V6TS_R2_00001

For example:



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)	Α	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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