

Zener Diode

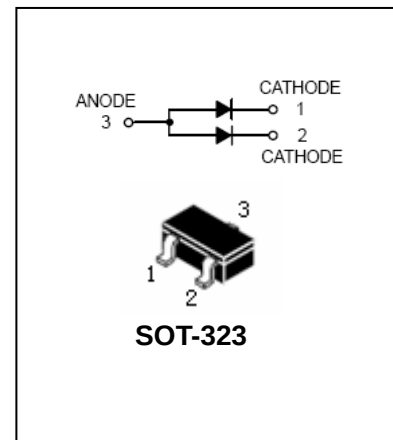
UMZ12N

FEATURES

- Small surface mounting type. (UMD3)
- Multiple diodes with common anode configuration.
- High reliability.



Lead-free



APPLICATIONS

- Constant voltage control.
- Noise suppression on single line

ORDERING INFORMATION

Type No.	Marking	Package Code
UMZ12N	6V	SOT-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Power dissipation	P_d	200	mW
Operating and storage temperature range	T_J, T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Zener voltage	V_Z	$I_Z=5mA$	11.0		13.0	V
Reverse current	I_R	$V_R=9V$			0.10	uA
Operating resistance	Z_Z	$I_Z=5mA$			30	Ω
Rising operating resistance	Z_{ZK}	$I_Z=0.5mA$			80	Ω

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

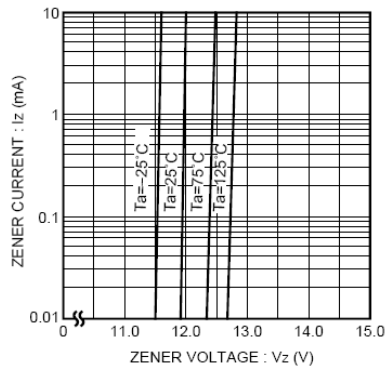


Fig.1 Zener voltage characteristics

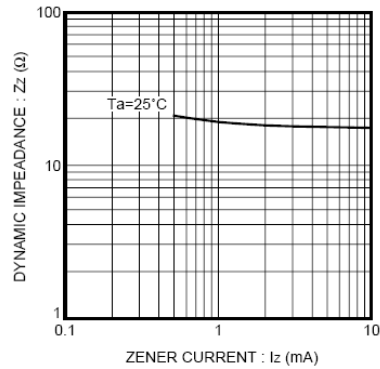


Fig.2 Operating resistance
Zener current characteristics

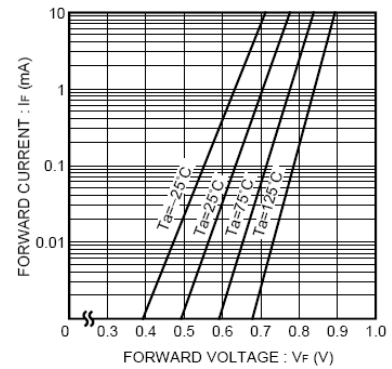


Fig.3 Forward characteristics

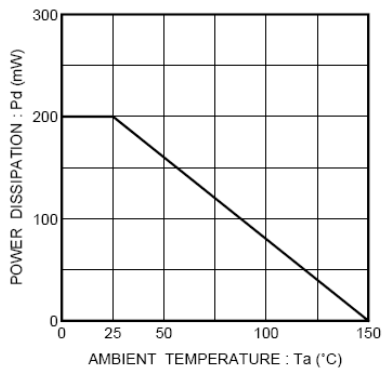


Fig.4 Derating curve

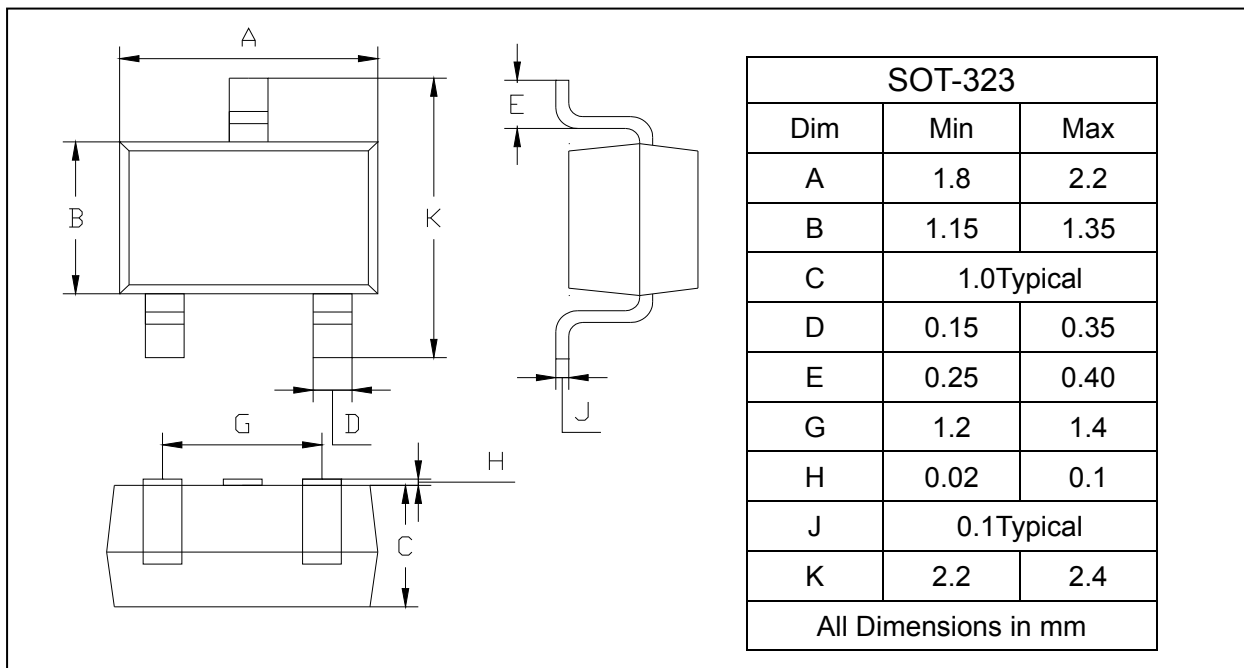
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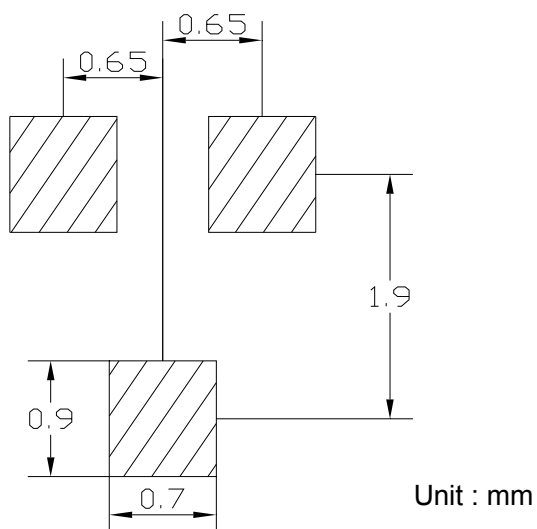
PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
UMZ12N	SOT-323	3000/Tape&Reel