

Zener Diode

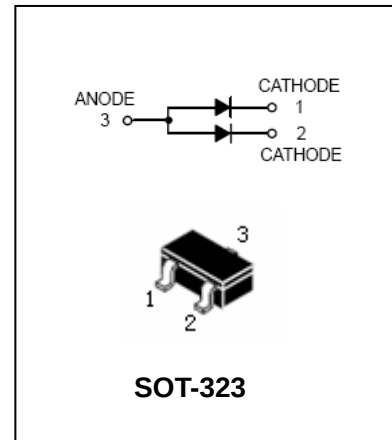
UMZ6.8N

FEATURES

- High reliability.
- Composite type with two cathode Common element.
- Small surface mounting type.



Lead-free



APPLICATIONS

- Constant voltage control.
- For the ESD measure of a signal line.

ORDERING INFORMATION

Type No.	Marking	Package Code
UMZ6.8N	6C	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	$I_Z=5mA$	6.47		7.14	V
Reverse current	I_R	$V_R=3.5V$			0.5	uA
Operating resistance	Z_Z	$I_Z=5mA$			40	Ω
Capacitance between terminals	C_T	$V_R=5V$ f=1MHz		9		pF

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

●Electrical characteristic curves ($T_a=25^\circ\text{C}$)

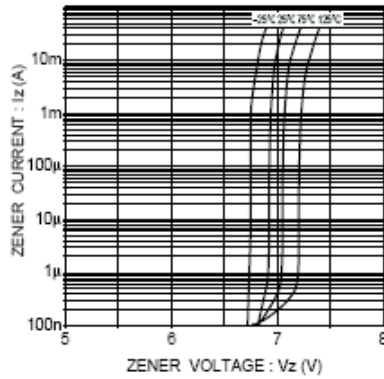


Fig.1 Zener voltage characteristic

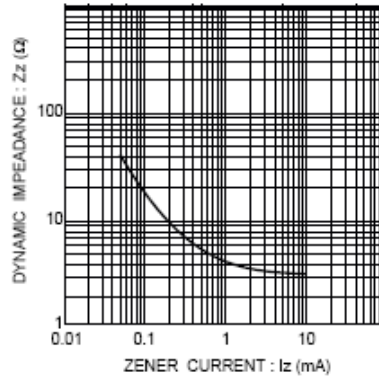


Fig.2 Operating resistance
Zener current characteristic

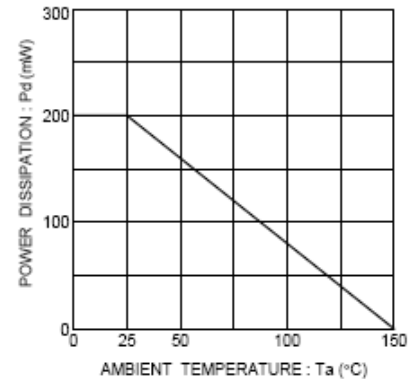
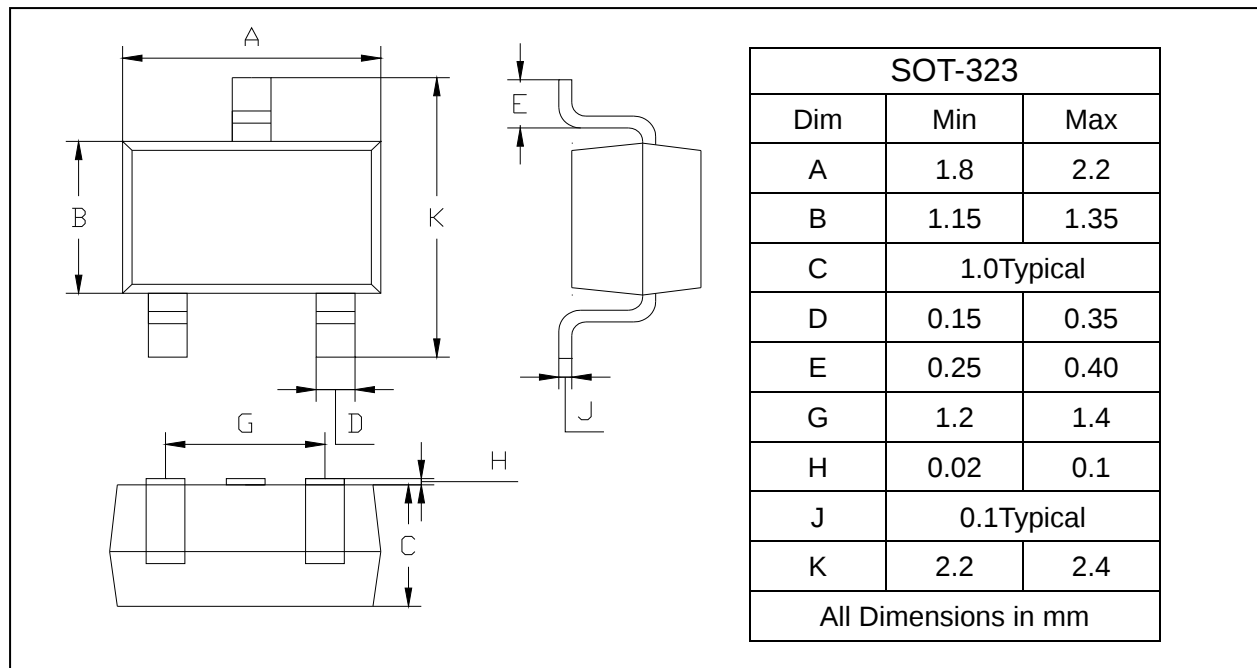


Fig.3 Derating curve

PACKAGE OUTLINE

Plastic surface mounted package

SOT-323

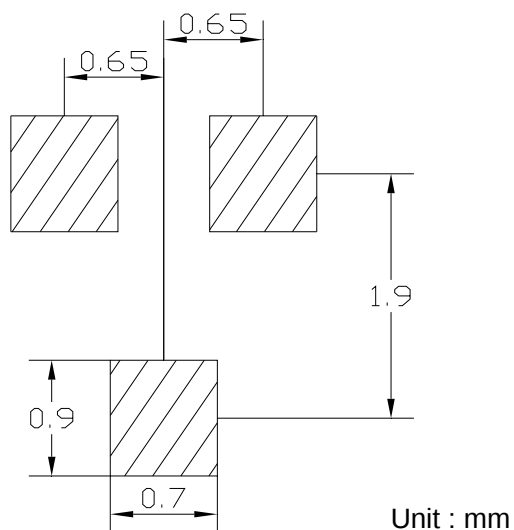




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UMZ6.8N

SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
UMZ6.8N	SOT-323	3000/Tape&Reel